

2018 - 2019

Honours Level Module Catalogue



University of
St Andrews
FOUNDED
1413

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Curriculum development

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

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

Any changes are made with due consideration to minimising impact, safeguarding academic standards and assuring quality, and are described at:

www.st-andrews.ac.uk/media/teaching-and-learning/policies/course-revision-protocol.pdf

Introduction to the Honours Level Module Catalogue

The main body of the Catalogue is presented in Sections relating to the Academic Schools in the University. In addition, there is also a section for Interdisciplinary Modules (section 23) and Music (section 24).

Explanation of Fields in Module Entries

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

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

SCOTCAT Credits. The number of credits associated with a module gives an indication of the amount of learning involved. For example, 1000-level modules in the School of Art History are each worth 20 credits. One credit represents the outcome achievable by the average student through 10 notional hours of learner effort. In practice, one full-time undergraduate year is considered to be 120 credits worth of learning (or 1,200 notional hours of learning).

SCQF Level. The **Scottish Credit and Qualifications Framework (SCQF)** Levels provide an indication of the complexity of qualifications and learning. See: <http://scqf.org.uk/wp-content/uploads/2014/03/SCQF-Revised-Level-Descriptors-Aug-2012-FINAL-web-version1.pdf>

Semester. The Semester or Semesters in which the module is taught. 'Whole Year' means that it is taught across the two semesters. The St Andrews teaching year has two semesters (September - December, and January - May).

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

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

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

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

Co-requisite(s). A module which must be taken in the same academic session as the one listed.

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

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

Weekly Contact. This will be an indication of the weekly teaching provision for each student. Where the pattern of teaching varies from week to week, **the average weekly contact is given**. Various activities may be included. (tutorials, laboratory work, practical sessions, lectures, fieldwork, consultation hours etc).

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

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

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

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

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

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

Introduction - Honours Level - 2018/9 - August 2018

Additional information by Schools: Self-explanatory.

School of Art History

Art History (AH) modules

AH3104 The Age of Klimt, Olbrich and Mucha				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	3.00 pm - 5.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)			
<p>This module analyses the development of the central European variations of Art Nouveau known as the Secession Style. Focusing on the Austro-Hungarian empire (in particular the cities of Vienna, Budapest, Prague and Cracow), it examines the new art, architecture and design with regard to its aims and themes. Emphasis is placed on the relationship between the artistic search for cultural identity, the state and contemporary society. Issues of nationalism and supranationalism will be analysed in the course of studying the work of the Vienna Secession and Wiener Werkstätte, the G+K colony, the Művészes and Sztuka societies. Major figures include Klimt, Wagner, Hoffmann, Olbrich, Lechner, Mucha, Rippl-Rónai and Wyspianski.</p>				
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 11 weeks), 2 x tutor's office hour (x 12 weeks), field trip - 8 hours			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr J C Howard			
Module teaching staff:	Dr J Howard			

AH3130 Approaches to Art History				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am - 12.30 pm Mon and either 9.00 am - 10.30 am (2 groups) or 11.00 am - 12.30 pm (2 groups) Wed			
<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>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 1.5-hour lecture and 1 x 1.5-hour seminar (x 10 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Take-home Examination to be completed in 48-hour period = 30%.			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module teaching staff:	Dr S Kallestrup and Dr S Rose			

Art History - Honours Level - 2018/9 - August - 2018

AH3131 A Survey of Islamic Art				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 11.00 am Wed (lecture) and either 10.00 am or 12 pm Thu (seminar)			
<p>This module offers an introduction to the history of art and architecture in the Middle East and Central Asia, from the birth of Islam in the seventh century through to modern times. It is designed to form a strong foundation for further, future engagement with art and architecture of the Islamic world. The module's expansive timeframe and extensive geographical reach will be explored thematically, and topics such as the word, ornament, figural representation and portraiture, courtly life, prophets, modernity and tradition, and death and afterlife will be addressed in their artistic, and further in their social, religious and political contexts. This will frequently involve discussing very different material, such as architecture, painting, and the minor arts in single lectures and seminars. During the module, we shall also consider how the arts of Islamic realms relate to analogous developments in European art, and ask what actually could be Islamic about art.</p>				
Pre-requisite(s):	Before taking this module you must (take AH2001 and take AH2002) or take MH2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks), 1 seminar (x 10 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 x Written assignment as agreed by the Board of Examiners			
Module coordinator:	Dr I Sturkenboom			

AH3196 Modern Art Beyond the West				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	1.00 pm Mon and 1.00pm Tues (lectures) and either 9.00 am or 11.00 am Wed (seminar)			
<p>Prompted by decolonization, postcolonialism, globalisation, and the globalised contemporary art world of the present day, many have suggested that narratives of modern art focused on Western cities such as Paris and New York are now provincial or inadequate. This course examines the rise of early- to mid-twentieth century 'modern' art in a range of countries not usually considered in Western survey courses. With the 1900-1960 date range setting its boundaries, the course will involve both close examinations of individual works by key figures, and broad comparative examination of movements and styles across times and places. As well as introducing students to some of the figures and movements that have been taken to show the distinctive nature of modernisms around the world, it will ask broader theoretical questions about the status of art history and the study of modernism.</p>				
Pre-requisite(s):	Before taking this module you must pass AH2002 and pass AH2001			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (X11 weeks), 1 tutorial (X11 weeks)			
	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%, Written Examination (24-hour take-home) = 30%			
Re-assessment pattern:	Two 3-hour Written Examinations = 100%			
Module coordinator:	Dr S P H Ensor-Rose			
Module teaching staff:	Dr S Rose			

AH3235 Spanish Painting in the Age of Velázquez			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	9.00 am – 11.00 am Tue (lecture) and either 10.00 am or 11.00 am Wed (seminar)		
<p>Centred around the figure of Diego Velázquez (1599-1660), this module explores one of the most dynamic and innovative periods in the history of Spanish arts. Drawing on a wide range of visual and textual sources, the aim is to introduce students to the key figures, artworks and themes that turned painting into a fundamental feature of the so-called 'Golden Age' of Spanish culture. While emphasis is placed on Madrid and the court, other major artistic centres like Seville and Toledo are discussed. In addition to well-known artworks by Velázquez, such as Las Meninas and The Spinners, this module examines the work of important artists like El Greco, Jusepe de Ribera, Francisco de Zurbarán and Bartolomé Esteban Murillo.</p>			
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002		
Learning and teaching methods of delivery:	Weekly contact: One 2-hour lecture, One 1-hour seminar		
	Scheduled learning: 30 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 70%, 48-hour Take-home Examination = 30%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr J R Marcaida Lopez		

AH4050 Approaches to Persian Painting and the Arts of the Book			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	10.00 am - 12.00 pm Wed (lecture) and either 10.00 am or 12 pm Thu (seminar)		
<p>This module surveys the heyday of the Persian Arts of the Book, from the fourteenth to the sixteenth centuries. These manuscripts are often lavishly illustrated with colourful paintings. Building on a century's worth of scholarly investigations, we will examine these images, their styles, and their motifs. We will also look beyond the pictures themselves and consider aspects of these books that remain under explored, such as textual contents, page layouts, the forms and functions of (non-illustrating) illumination, and their organisation. Questions we shall explore include: For whom were the manuscripts made? How were workshops organised? Where did the inspiration for paintings come from? What is the relationship between text and image? How were manuscripts perceived and altered? This module will be delivered through a combination of lectures, seminars, and visits to manuscript collections.</p>			
Pre-requisite(s):	Before taking this module you must (pass AH2002 and pass AH2001) or pass MH2002		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks), 1 x 1-hour seminar (x 11 weeks) and 12 hours of fieldwork		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	1 x Written assignment to be agreed by the Board of Examiners		
Module coordinator:	Dr I Sturkenboom		

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AH4078 Art and Politics in France, 1945 - 1975				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm - 5.00 pm Tue (lecture) and either 9.00 am or 11.00 am Thu (seminar)			
	<p>This module examines the major artists and groups in French postwar art through a consideration of aesthetic features and theoretical issues in tandem with their social and political context. The problems facing the neo-avant garde following the war will be assessed by looking at topics such as Dubuffet and Art Brut, Socialist Realism, Giacometti and Existentialist philosophy, abstract painting, Yves Klein and the 'New Realists', the Cobra group, the Situationists and the May '68 uprising, and post-1968 projects by Daniel Buren, Christian Boltanski and Annette Messager. Additional topics for discussion include the relationship of French culture to British and American culture, 1950s design, NewWave cinema, and the impact of the Cold War and the Algerian War.</p>			
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Anti-requisite(s)	You cannot take this module if you take AH4213			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 11 weeks), 2 x tutor's office hour (x 12 weeks), field trip - 8 hours			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews:			
Module coordinator:	Dr N A Adamson			
Module teaching staff:	Dr Natalie Adamson			

AH4097 60-Credit Honours Dissertation in Art History				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	As arranged with Supervisor and Honours Adviser			
	<p>The dissertation will be valued at 60 credits and completed over two semesters. It will be c. 12,000 words in length. Topics must be capable of being supervised by the School's established staff and each student will (a) be assigned a supervisor, who will be available to discuss issues related to the dissertation throughout both semesters, and (b) be required to attend one general lecture on research and at least one 50-minute supervisory meeting per semester. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Anti-requisite(s)	You cannot take this module if you take AH4099			
Learning and teaching methods of delivery:	Weekly contact: During the semester, in total there will be 1 x 1-hour briefing seminar; 1 x 1-hour pre-supervisory meeting; 1 x 1-hour dissertation writing seminar; 2 x 1-hour supervisory meetings; 1 x 2-hour presentation seminar; 1 x 1-hour review meeting.			
	Scheduled learning: 8 hours		Guided independent study: 592 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr I Sturkenboom			
Module teaching staff:	Team taught			

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AH4099 30-Credit Dissertation in Art History				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	As arranged with Supervisor and Honours Adviser			
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/)				
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Anti-requisite(s)	You cannot take this module if you take AH4097			
Learning and teaching methods of delivery:	Weekly contact: During the semester, in total there will be 1 x 1-hour briefing seminar; 1 x 1-hour pre-supervisory meeting; 1 x 1-hour dissertation writing seminar; 2 x 1-hour supervisory meetings; 1 x 2-hour presentation seminar; 1 x 1-hour review meeting.			
	Scheduled learning: 8 hours		Guided independent study: 292 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr I Sturkenboom			
Module teaching staff:	Team taught			

AH4130 Realism and Symbolism in Russian Art 1860 - 1910				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm - 5.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)			
This module examines the development of Russian art from the appearance of 'romantic realism' in the 1820s, through that of 'critical realism' in the mid-nineteenth century to the introduction of symbolist values around 1900. Special emphasis is laid on the relationship of the Academy with the exponents of the new trends. Accepted interpretations will be scrutinised with the various movements and individuals (such as Repin, Surikov, Perov, Vasnetsov, Levitan, Kramskoy, Nesterov and Serov) being studied in relation to social and political demands, patronage, aesthetic theories and the continuing tensions between 'native' traditions and 'western' ideas.				
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 10 weeks) 2 x tutor's office hour (x 11 weeks), fieldtrip - 8 hours			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr J C Howard			
Module teaching staff:	Dr J Howard			

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AH4167 Symbolism, Decadence and Modernity				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Tue and 12.00 pm Wed (lectures) and either 10.00 am or 12.00 pm Thu (seminar)			
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.				
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lectures and 1 x 1-hour seminar.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr L J Goddard			
Module teaching staff:	Dr L Goddard			

AH4177 Objects of Devotion: The Art and Material Culture of Mediaeval Christianity				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Tue (lecture) and either 10.00 am or 12.00 noon Thu (seminar)			
This module will examine the art, images, and material culture of Christian devotion in Northern Europe, from 1100 to 1500. When medieval people entered their parish churches, or when pilgrims reached saints' shrines, what kinds of objects did they interact with? What did they carry with them? From reliquaries, to books of hours, and pilgrim souvenirs, students will learn about the objects that facilitated religious practice and those that were themselves the subject of veneration. Students will also learn about the development of lay devotion in the later Middle Ages, and be able to identify the political, economic, and social contexts in which these objects functioned. This immersive study of medieval material culture will be supplemented by a hands-on session with manuscripts at the University's Special Collections department.				
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture per week (x 10 weeks); 1 x 1-hour seminar per week (x 10 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr E N Savage			
Module teaching staff:	Dr E Savage			

AH4184 The Art of the Apocalypse from the Middle Ages to the Present			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	11.00 am - 1.00 pm Tue (lecture) and either 11.00 am or 1.00pm Thurs (seminar)		
<p>Medieval Christians believed that the End Times were imminent, though the questions of where, when, and how remained up for debate. The concept of Apocalypse still maintains an outsized role in secular culture today, from zombie movies to climate change activism. In this module, students will learn about the iconographic traditions associated with the Book of Revelation, and be able to contextualise this imagery within both orthodox and popular beliefs in the Middle Ages. They will also examine the ways in which prophecy, monstrosity, and eschatological expectation, all core elements of the Christian apocalyptic tradition, have been appropriated to support different social, political, and religious agendas from the Middle Ages to the present. Lectures and tutorials for the final four weeks will specifically explore postmedieval resonances of apocalyptic imagery, from the Reformation to the Second World War. The module will conclude by investigating the power of apocalyptic performance.</p>			
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks); 1 x 1-hour seminar (x 11 weeks)		
	Scheduled learning: 33 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners		
Module coordinator:	Dr E N Savage		
Module teaching staff:	Dr Emily Savage		

AH4185 Michelangelo: Sculptor, Painter, Architect			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	9.00 am Tue and 9.00 am Wed (lectures) and either 11.00 am or 12.00 pm (seminar)		
<p>The module will be organised as a chronological survey of Michelangelo's life, times, and work. This will allow to consider his artistic production in different media in a fluid and dynamic way. Each lecture will take up a significant aspect of the artist's works, as well as consider his many famous and some lesser-known masterpieces. The use of primary sources, both textual and visual, will be constant and consistent. Breakdown of lectures/topics: Week 1. Michelangelo's youth and early training; Florence and Bologna in the early 1490s; Week 2. First visit to Rome and early patrons; the Bacchus and the Pietà; Week 3. The return to Florence and the David; the Battle of Cascina; the Taddei, Pitti and Doni Tondos; Week 4. Rome and the tomb of Julius II; Bologna and the return to Rome; Week 5. The Sistine Chapel; Week 6. The Medici Chapel; Week 7. The Laurentian Library; Week 8. Inventing a new aesthetic: the non-finito; Michelangelo's drawings 1520-40; Week 9. The Last Judgment; the Pauline Chapel; Week 10. Michelangelo's Roman architecture: Palazzo Farnese; San Giovanni dei Fiorentini; Week 11. Last works and death.</p>			
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002		
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lectures (x 11 weeks), 1 x 1-hour tutorial (11 weeks)		
	Scheduled learning: 33 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%		
	As used by St Andrews: Coursework = 70%, 2-hour Written Examination = 30%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr L Moretti		

Art History - Honours Level - 2018/9 - August - 2018

AH4191 Art, Science and Technology 1700 - 1900				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)			
<p>This module examines the relationship between art, science, and technology in the eighteenth and nineteenth centuries. Although we will cover a diverse range of practitioners and objects from the Age of Enlightenment through to the rise of the modern era, this module is not a survey in the traditional sense. Instead, we will address a series of thematically grouped topics in loosely chronological order. Sample topics include anatomical diagrams, the chemistry of colour, industrial printmaking, and the prehistory of the cinema. In each case, we will consider the impact these developments had on the visual arts, addressing how artworks were influenced by and, in turn, responded to science and technology. This module will introduce students to key methodologies associated with the histories of science, media, and technology. Throughout the course, students will be encouraged to think critically about how these methods might enhance, challenge, or transform our study of art.</p>				
Pre-requisite(s):	Before taking this module you must pass AH2002 and pass AH2001			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks), 1 x 1-hour seminar (x 11 weeks)			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Take-home examination to be completed in 48-hour period = 30%.			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr S O'Rourke			

AH4192 Images of Empire				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am – 11.00 am Mon (lecture) and either 10.00 am or 11.00 am Tue (seminar)			
<p>This course examines the visual culture of the French and British empires, from roughly 1720 to 1870. Throughout the course, we consider a diverse range of image-making practices in North America, the Caribbean, India, North Africa, and Australia. Although the module is primarily concerned with art produced within colonial territories, we will also consider how certain aspects of imperial visual culture were displayed and consumed in Western Europe. Rather than offer a survey, the module is organised around a series of themes that will enable us to look across different geographical contexts and time periods. We will consider how power, identity, and politics were constructed as well as contested within these colonial image economies.</p>				
Pre-requisite(s):	Before taking this module you must pass AH2002 and pass AH2001			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lectures and 1 seminar.			
	Scheduled learning: 30 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, 48-hour take-home examination = 30%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S O'Rourke			

AH4205 Byzantium, 330 - 1453: Art, Religion and Imperial Power

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Thu (lecture) and either 3.00 pm or 4.00 pm Thu (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. 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>				
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Learning and teaching methods of 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 coordinator:	Dr G Kouneni			
Module teaching staff:	Dr Lenia Kouneni			

AH4208 The Portrait in Western Art

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am - 11.00 am Thu (lecture) and either 3.00 pm or 4.00 pm (seminar)			
<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>				
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar (x 10 weeks) 2 x tutor's office hour (x 12 weeks), fieldtrip - 8 hours			
	Scheduled learning: 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 coordinator:	Dr E J M van Kessel			
Module teaching staff:	Dr Elsje van Kessel			

Art History - Honours Level - 2018/9 - August - 2018

AH4209 Portuguese Renaissance from Local to Global				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Thurs (lecture) and either 3.00 pm or 4.0pm Thurs (seminar)			
<p>From Brazil to the west coast of Africa to Macau and Japan, the Portuguese of the Renaissance established trading posts around the globe. This module examines how the Portuguese maritime expansion impacted art and architecture at home, as well as how new colonial art forms emerged overseas. We will look at a great variety of objects and art forms, such as Manueline and so-called 'plain' architecture, painting, ivory carving, textiles, tiles, urbanism, and the art of the spectacle. We will analyse the political context of the arts by scrutinising relations with the country's big neighbour, Spain. The aim of the module is not only to become familiar with the artistic heritage of an area of Europe left out of so many art-historical narratives, but also to reflect on what it means to study the arts of the Renaissance from a global perspective.</p>				
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Learning and teaching methods of delivery:	Weekly contact:			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module coordinator:	Dr E J M van Kessel			
Module teaching staff:	Dr Elsje van Kessel			

AH4216 Mediaeval Islamic Painting				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon - 2.00 pm Fri (lecture) and either 3.00 pm or 4.00 pm Fri (seminar)			
<p>The module surveys Islamic painting (mosaics, frescoes, pottery and especially the arts of the book) between c.700 and c.1500 in the Arab and Persian worlds. Major themes to be explored include the interplay between Islamic and classical (including Byzantine) art; the development of the sacred book - the Qur'an - by means of script and illumination; the vexed question of Islamic iconoclasm; the role of pottery as a vehicle for courtly and popular figural art; the evolution of the frontispiece; and the infiltration of ideas from Europe and especially China into Islamic painting. Students will encounter such texts as the Assemblies of al-Hariri, the Quintet of Nizami and Firdausi's Book of Kings, and will study the interplay of text and image, of iconographic cycles and narrative techniques and how the so-called classical style in Persian painting emerged.</p>				
Learning and teaching methods of 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 coordinator:	Prof R Hillenbrand			

AH4221 The French Avant-Garde from Realism to Impressionism			
SCOTCAT Credits:	30	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	11.00 am – 1.00 pm Wed (lecture) and either 9.00 am or 10.00 am Thu (seminar)		
	<p>Between the late 1840s and early twentieth century, French artists jettisoned tradition and re-invented the art of painting. This course focuses on the first two epochs in this complex evolution: Realism and Impressionism. The first half takes as its subject the works of Gustave Courbet and Édouard Manet, two pioneers of the avant-garde who were also bound in telling respects to the ambitions of French academic painting. We will attend to the complex nature of Realism as a social movement and a mode of vision. The second half studies Impressionism by examining the types of places, spaces, and persons represented by Impressionist painters like Edgar Degas, Berthe Morisot, Mary Cassatt, Claude Monet, and Gustave Caillebotte. We will consider the social, political, and technological developments that accompanied and influenced artistic practice. In particular, we shall evaluate the notion of 'modernity', both as a historical phenomenon and as a construct within avant-garde practice.</p>		
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture (x 10 weeks); 1 x 1-hour seminar (x 10 weeks)		
	Scheduled learning: 30 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr M Knowles		

AH4226 African Modernisms			
SCOTCAT Credits:	30	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	3.00 pm – 5.00 pm Tue (lecture) and either 10.00am or 11.00am Wed (seminar)		
Planned timetable:	to be confirmed		
	<p>This course explores modernist art practice across the African continent. We begin by examining the term 'modernism': what is modernist / modern art? Where is it located? Are its origins in the West? We will explore its relationship to 'contemporary' art, and consider the ways in which the two intersect with colonialism and post-colonialism. We will proceed through thematic weeks, each with a focus on modern and contemporary art in specific locales (including Senegal, Nigeria, Ethiopia, Kenya, Mozambique, Angola, Uganda and South Africa), learning about Africa's leading modern and contemporary artists, and the ways in which they have defined and expressed their work. We will study programs of art education, relationships to political processes, manifestoes and collectives, the city as modern space, questions of medium, and the modes of display that have made these works visible within the contexts of their production and within the global art world.</p>		
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002		
Learning and teaching methods of delivery:	Weekly contact: One 2-hour lecture, One 1-hour seminar		
	Scheduled learning: 30 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr K E Cowcher		
Module teaching staff:	Dr K Cowcher		

Art History - Honours Level - 2018/9 - August - 2018

AH4235 Communication in Art History				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Lectures - To be arranged Workplace experience to be arranged.			
This module is part of the 'Communication and Teaching in Arts and Humanities' in which students gain substantial experience of a working environment. This component offers the opportunity to further develop an area of interest in communicating themes of Art History to contemporary contexts. It is available only to participants in the placement module.				
Co-requisite(s):	You must also take ID4002			
Learning and teaching methods of delivery:	Weekly contact: 3 hours of one-to-one supervision			
	Scheduled learning: 3 hours		Guided independent study: 150 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	New Coursework = 100%			
Module coordinator:	Dr J C Howard			
Module teaching staff:	Dr Jeremy Howard			

AH4236 Images and Knowledge in Early Modern Europe				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am – 11.00 am Mon (lecture) and either 10.00 am or 12.00 pm Wed (seminar)			
This module explores the relationship between science and the visual arts in Europe in the sixteenth and seventeenth centuries. Drawing on a wide range of materials - from still life paintings and illustrated albums, to books of secrets and maps - we will study the ways in which artists and artworks informed knowledge-making practices in fields like natural history, medicine, the study of vision and cartography. At the same time, we will explore the impact of such disciplines on the development of ideas and practices relevant to the work of artists and their publics. While focusing on Europe, much attention will be placed on extra-European contexts, the Spanish Americas in particular. The module is organised around specific but interconnected themes, including: eyewitnessing and the rise of naturalism; new worlds and their images; the visual culture of bodies and diseases; wonder, curiosity and the cultures of collecting; vision and its instruments; science, technology and visual media.				
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture (x 11 weeks); 1 x 1-hour seminar (x 11 weeks)			
	Scheduled learning: 33 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 70%, Essay-style examination to be completed during a 48-hour period = 30%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J R Marcaida Lopez			
Module teaching staff:	Dr J Marcaida Lopez			

AH4240 The Art of War: Battle, Rivalry, Paragone, 1400-1700			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	4.00 pm – 6.00 pm Thu (lecture) and either 10.00 am or 11.00 am Fri (seminar)		
	<p>In an age of increasingly militarized visual culture, the module explores the roots of contemporary phenomena such as war reenactments, video games and art looting. Examining painted, drawn, printed and sculpted works depicting scenes of combat, we will investigate common figurative strategies that early modern artists mobilized in response to the problems of style, scale, space, and time posed by the subject of the representation. Rather than as a survey, the course is structured around a series of themes that will enable us look at different artists, contexts and media, ranging from Leonardo da Vinci to Salvator Rosa, from canvas paintings to armor and shields. To better understand the status of war images, we will also focus on the battle as a metaphor for artistic making, addressing the relevance of antagonistic dynamics in Renaissance culture (among artists, styles or media), building on the growing body of literature focusing on the early modern culture of competition and rivalry</p>		
Pre-requisite(s):	Before taking this module you must pass AH2001 and pass AH2002		
Learning and teaching methods of delivery:	Weekly contact: Two 1-hour lectures (x 11 weeks), One 1-hour seminar (x 11 weeks)		
	Scheduled learning: 33 hours	Guided independent study: 253 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%		
	As used by St Andrews: Coursework = 70%, 2-hour Written Examination = 30%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr F Borgo		

School of Biology

Biology (BL) modules

BL3000 Field Course			
SCOTCAT Credits:	10	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	1-week residential course in summer vacation normally just prior to Orientation week.		
	This module involves field-based exercises in a range of aquatic and/or terrestrial habitats. Students will examine and measure biodiversity, ecophysiological adaptation, and community structure, with both plant and animal material. Class exercises are used to develop good sampling techniques and to generate and analyse large data sets. Students also work in small project groups to develop individual skills in experimental design, practical manipulations, time-management and personal initiative, and in verbal/written presentation of project results.		
Pre-requisite(s):	Before taking this module you must pass BL2300 and (pass BL2307 or pass BL2310)		
Anti-requisite(s)	You cannot take this module if you take BL3321 or take BL3322		
Co-requisite(s):	In the same year as taking this module you should take BL3308 or take BL3309		
Learning and teaching methods of delivery:	Weekly contact: 6-day field course, 8-hours per day		
	Scheduled learning: 48 hours	Guided independent study: 52 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Resubmission of failed item(s) of coursework		
Module coordinator:	Prof D M Paterson		
Module teaching staff:	Team taught		

BL3301 Protein Structure and Function			
SCOTCAT Credits:	20	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.		
	This module builds an understanding of more advanced aspects of protein structure and enzymology. The module begins by considering the protein-folding problem. The energetics of protein folding and the dependence of structure on sequence are examined. Protein folding diseases like spongiform encephalopathies are used as examples to highlight the significance of protein folding. The molecular basis of prion diseases is discussed in detail. The second part of the module focuses on the mechanisms of enzymes. This in turn leads into the phenomena of allosteric regulation, signalling cascades and transporter systems and is followed by a consideration of enzymes as pharmacological targets. The third part of the module introduces the major techniques for protein structure determination that are at the heart of modern biochemistry, molecular biology and drug discovery. Strategies for obtaining three-dimensional images of macromolecules by electron microscopy, X-ray crystallography and nuclear magnetic resonance are discussed. The laboratory course associated with this module introduces the fundamentals of safe laboratory practice. It provides grounding in the basic laboratory techniques, including associated calculations, as well as those associated with the study of proteins and enzymes.		
Pre-requisite(s):	Before taking this module you must pass BL2306 and (pass BL2302 or pass BL2309)		
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks) and 3 x 8-hour practicals, and 1 x 4-hour practical, split over several days, during the semester.		
	Scheduled learning: 62 hours	Guided independent study: 138 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%		
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%		
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%		
Module coordinator:	Dr U Schwarz-Linek		
Module teaching staff:	Team taught		

Biology - Honours Level - 2018/9 - August - 2018

BL3302 Gene Regulation				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	Lectures: 10.00 noon Mon, Tue and Wed Practicals: to be arranged.			
<p>This module builds on material covered in BL1201 Molecular Biology and BL2104 Biochemistry and Molecular Biology. It first considers the structure of genes and the composition of genomes and then examines genetic activity in eukaryotes in relation to nuclear organisation, chromatin structure and epigenetic mechanisms. Regulation of expression at the levels of gene transcription, RNA processing, RNA stability and translation are next covered in detail, drawing particular attention to the nature of protein-nucleic acid interactions. Specific control mechanisms in different prokaryotic and eukaryotic systems, induced by environmental, cell cycle, and metabolic signals are highlighted.</p>				
Pre-requisite(s):	Before taking this module you must pass BL2302 and (pass BL2306 or pass BL2309)			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks) and 3 x 16-hour practicals, split over several days, during the semester.			
	Scheduled learning: 78 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr S A MacNeill			
Module teaching staff:	Team taught			

BL3303 Membranes and Cell Communication				
SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.			
<p>This module looks at the various ways in which cells communicate with each other. Cell signalling not only involves the creation and reception of signals but also the mechanisms by which signals are transported across biological membranes. We will therefore consider the central role that biological membranes play in the regulation of the movement of molecules between different extracellular, intracellular and transcellular compartments. Also protein sorting and membrane trafficking will be studied. Using various examples of cell communication, the module will discuss both the molecular and the organismal implications of cell signalling. Topics covered include:(i) Lipids; (ii) Protein targeting and sorting; (iii) Membrane trafficking and transport; (iv) Wnt, Notch and Hedgehog signalling; (v) Plant cell signalling; (vi) Hippo signalling (vii) Ubiquitylation and SUMOylation.</p>				
Pre-requisite(s):	Before taking this module you must pass BL2301 and (pass BL2305 or pass BL2306 or pass BL2309)			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 3 x 7-hour practicals, split over several days during the semester.			
	Scheduled learning: 54 hours		Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr M Bischoff			
Module teaching staff:	Team taught			

BL3307 Evolution				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	Lectures: 11 am Mon, Tue and Wed Practicals: to be arranged.			
Topics in this module will include: molecular variation and evolution, including phylogeny reconstruction; the evolution and maintenance of sex; the genetics of continuous traits, and the relative importance of continuous and discontinuous variation in evolution; evolutionary developmental biology; evolution of population genetic structure; the genetics of speciation, covering the evolution of pre- and post-zygotic isolation, and parapatric, sympatric and island speciation. Practicals will involve computer simulations to investigate a range of evolutionary phenomena, plus use of molecular markers to examine population structure and speciation.				
Pre-requisite(s):	Before taking this module you must pass BL2303			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks) and 1 x 2-hour and 1 x 3-hour practical during the semester.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Prof T R Meagher			
Module teaching staff:	Team taught			

BL3308 Aquatic Ecology				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	Lectures: 10.00 am Mon, Tue and Wed Practicals: residential field trip.			
This module introduces the ecology of aquatic systems beginning with a description of the problems of life in a fluid medium. The module then considers the contrasting conditions that are inherent in freshwater, estuarine and marine systems. The influence of global climate variation and the close coupling between land and sea will be emphasised. Case studies will then be used to introduce the ecology of a variety of aquatic systems including tropical, temperate and polar systems. This module involves a residential field trip to Kindrogan field station in the Scottish Highlands.				
Pre-requisite(s):	Before taking this module you must pass BL2307			
Co-requisite(s):	You must also take BL3000			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks) and 1 x 3-day residential field course			
	Scheduled learning: 50 hours		Guided independent study: 150 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 14%, Coursework = 20%			
	As used by St Andrews: 3-hour Written Examinations = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr I M Matthews			
Module teaching staff:	Team taught			

Biology - Honours Level - 2018/9 - August - 2018

BL3309 Ecosystems and Conservation				
SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures: 10.00 am Mon, Tue and Wed Practicals: to be arranged.			
This module will examine how ecosystems function and how they provide services for humans: information which is essential for ecologists, conservationists and land managers. The module will consider examples of natural systems being altered by man to demonstrate how ecosystems function and the consequences of anthropogenic change. Disturbance and regulation in ecosystems, atmospheric and hydrological regulation, (including the green house effect and acidification), soil ecology, conservation and management of natural resources, agricultural and grazed ecosystems (including GMOs), urban ecosystems and aspects of sustainable development will also be discussed.				
Pre-requisite(s):	Before taking this module you must pass BL2307 and (pass BL2303 or pass BL2304 or pass BL2308)			
Co-requisite(s):	You must also take BL3000			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 2 x 3- hour practicals during the semester.			
	Scheduled learning: 39 hours		Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Prof W R L Cresswell			
Module teaching staff:	Team taught			

BL3310 Bioenergetics				
SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures: 12.00 noon Mon, Tue and Wed Practicals: to be arranged.			
The conversion of one form of energy into another by a biochemical process is at the centre of all life. This module studies the biological systems for conserving energy from food oxidation and light absorption (photosynthesis) and the conversion of the resulting redox energy into chemical energy in the pyrophosphate bonds of ATP. The module also considers electron transfer processes in biology and the energetics of transport processes. Chemiosmotic theory and the principles are considered in detail as are the structure and function of electron and proton transfer systems of energy transducing systems. Practical classes will introduce the student to the methods used in this field of study. The module will comprise twenty lectures, eight hours tutorials/seminars in total, and twelve hours in practical classes.				
Pre-requisite(s):	Before taking this module you must pass BL2302 or pass BL2306			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 2 x 6-hour practicals, split over 2 days, and 2 x 3-hour student presentation seminars, during the semester.			
	Scheduled learning: 51 hours		Guided independent study: 149 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr J Nairn			
Module teaching staff:	Team taught			

BL3311 Infection and Disease

SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures: 10.00 am Mon, Tue and Wed Practicals: to be arranged.			
This module has lectures in three component areas: parasite infections, viral disease, and pathogenicity of common bacterial infections, and will include consideration of host defences and effective treatment. In all three component areas the emphasis will be on understanding at the molecular level.				
Pre-requisite(s):	Before taking this module you must pass BL2301 and pass BL2309			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) and 2 x 9-hour practicals and 1 x 12-hour practical, split over several days, during the semester			
	Scheduled learning: 63 hours		Guided independent study: 137 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr P J Coote			
Module teaching staff:	Team taught			

BL3315 Developmental Biology

SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass 2 modules from {BL2301, BL2302, BL2304, BL2308}			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x11 weeks) and 2 x 15-hour practicals, split over several days, during the semester.			
	Scheduled learning: 63 hours		Guided independent study: 137 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 34%, Coursework = 0%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr D E K Ferrier			
Module teaching staff:	Team taught			

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BL3316 Animal Plant Interactions				
SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures: 12.00 noon Mon, Tue and Wed Practicals: to be arranged.			
<p>This module concerns the coevolution of plants and animals, including the ecological, behavioural and physiological aspects of their interactions. Pollination biology and the constraints on participating plants and animals are dealt with in depth, including applied aspects of crop pollination, and this is followed by a review of seed dispersal. Then patterns of herbivory by insects, vertebrates and other animals are considered, illustrating the interactions of plant physical and chemical defences and herbivores' reciprocal adaptations from feeding specialisations and host plant selection through to detoxification systems and life history adaptations. Interactions with third parties are also explained, especially plant-fungus-insect systems. There is an introduction to other tritrophic interactions (whereby plants can recruit herbivores' enemies as part of their defences, or recruit ants as biotic plant guards), to insects as plant pests, and to integrated and sustainable approaches to control measures and plant protection.</p>				
Pre-requisite(s):	Before taking this module you must pass BL2304 or pass BL2307 or pass BL2310			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks), 1 x 3- hour practical and 1 x 3-hour student presentation seminar during the semester.			
	Scheduled learning: 39 hours		Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 22%, Coursework = 12%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Prof G D Ruxton			
Module teaching staff:	Team taught			

BL3318 Biology of Marine Organisms				
SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures: 12 noon Mon, Tue and Wed Practicals: to be arranged.			
<p>This module will include lectures on the range of microbial and metazoan organisms and ecological systems in the marine environment. The coverage will range from bacteria, to algae, invertebrates and vertebrates (fish, birds, reptiles and mammals). The biology of marine organisms is considered in the context of both adaptations at the level of the individual and its expression in terms of large-scale latitudinal and depth-related variations in productivity and food web structure. Examples from the poles to the tropics and from shallow water to the deep ocean will be included. Practicals will be field- and laboratory-based and will provide an experimental introduction to both ecological and physiological problems in marine biology.</p>				
Pre-requisite(s):	Before taking this module you must pass 3 modules from {BL2304, BL2307, BL2308, BL2310}			
Learning and teaching methods of 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 coordinator:	Dr V J Smith			
Module teaching staff:	Team taught			

BL3319 Animal Behaviour: A Quantitative Approach

SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures: 9.00 am am Mon, Tue and Wed Practicals: to be arranged.			
<p>This module is designed to provide a broad and multifaceted perspective on animal behaviour, emphasising contemporary theoretical, mathematical and statistical approaches to the discipline. Nobel-Prize-winning ethologist, Niko Tinbergen, pointed out that to understand behaviour fully researchers had to answer four types of questions, about its causation, function, development and evolution. All four areas are covered in the course, which includes lectures on the genetic, neural, physiological and experiential (i.e. learning) influences on behaviour; behavioural development; foraging; sexual behaviour, sexual selection and mate choice; communication, cooperation and culture. The course contains extensive material of a formal theoretical nature, and emphasises quantitative skills throughout. Students will be introduced to new mathematical and statistical approaches within the field.</p>				
Pre-requisite(s):	Before taking this module you must pass BL2303 or pass BL2307 or pass BL2310			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks), 3 x 1- hour mini-project group meetings during the semester.			
	Scheduled learning: 36 hours		Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 7%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr M M Webster			
Module teaching staff:	Team taught			

BL3320 Statistical and Quantitative Skills for Biologists

SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>Few biologists are statisticians or mathematicians, but all biologists use statistics and mathematics. This series of workshops is designed to build confidence in organising and analyzing data to address biological questions efficiently. The module will help you learn how to identify statistical and quantitative approaches, and how to manage and analyse data in a code driven statistical programming package. An introductory workshop will cover basic concepts and practical training that will be used in a choice of specific workshops that cover applications across the range of Biology.</p>				
Pre-requisite(s):	Before taking this module you must pass BL2300. The pre-requisite of BL2300 is waived for bsc neuroscience students.			
Learning and teaching methods of 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 coordinator:	Prof W R L Cresswell			
Module teaching staff:	Team taught			

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BL3321 Advanced Critical Analysis Reading Party				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass 4 modules from {BL2300, BL2301, BL2302, BL2303, BL2304, BL2305, BL2306, BL2307, BL2308, BL2309, BL2310}			
Anti-requisite(s)	You cannot take this module if you take BL3000 or take BL3322			
Co-requisite(s):	You must also take 1 module from any levels matching bl3			
Learning and teaching methods of delivery:	Weekly contact: 5-day residential course, 8-hours per day			
	Scheduled learning: 40 hours		Guided independent study: 60 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 5%, Coursework = 95%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of coursework			
Module coordinator:	Prof D J Evans			
Module teaching staff:	Team taught			

BL3322 Basic Biochemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass BL2301 or pass BL2302 or pass BL2306			
Anti-requisite(s)	You cannot take this module if you take BL3000 or take PN3321			
Learning and teaching methods of delivery:	Weekly contact: 5-day laboratory course, 8-hours per day			
	Scheduled learning: 40 hours		Guided independent study: 60 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 1-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	1-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr R Guimaraes da Silva			
Module teaching staff:	Team taught			

BL3323 Terrestrial Zoology				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am Mon, Tue, Wed. Practicals: to be arranged.			
This module covers the biology of land animals, including their early evolution, their strategies to cope with unusual terrestrial habitats (extremes of hot, arid and cold, urban life, island life, etc, including climate change effects), and their special problems with reproduction and locomotion. It then looks at insights gained from modern techniques, including molecular, bioinformatics and bar-coding approaches, bio-logging and tracking, and developmental adaptations. It concludes with special topics on particular animals or groups that have improved our understanding of terrestrial peculiarities, whether behavioural, sensory, physiological, mechanical, metabolic or ecological; and of threats to terrestrial diversity for certain groups.				
Pre-requisite(s):	Before taking this module you must pass BL2310 and (pass BL2304 or pass BL2308)			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks); 1 x 3-hour and 1 x 4-hour practicals.			
	Scheduled learning: 37 hours		Guided independent study: 163 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 14%, Coursework = 20%			
	As used by St Andrews: 3-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	3-hour Written Examination = 66%, Existing Coursework = 34%, module grade capped at 7.			
Module coordinator:	Prof C Rutz			
Module teaching staff:	Team taught			

BL4200 Literature-based Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Anti-requisite(s)	You cannot take this module if you take BL4201 or take PN4299			
Learning and teaching methods of 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 teaching staff:	Individual Supervisors across the School of Biology			

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BL4201 Experimental Research Project				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>This project will involve extensive laboratory or field research to investigate a defined problem within biology, appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Biology who will guide and advise them in research activities throughout the academic year.</p>				
Pre-requisite(s):	Permission of biology honours adviser required			
Anti-requisite(s)	You cannot take this module if you take BL4200 or take PN4299			
Learning and teaching methods of 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 teaching staff:	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:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Practical skills are the core of research in biochemistry and molecular biology. This module is designed to prepare students for laboratory research projects in internationally competitive research. The module is designed to foster skills such as experimental design, core practical skills, data analysis and excellent record keeping. Each practical requires some prior theoretical familiarity. Emphasis is placed upon experimental design - notably anticipation of experimental outcomes and the choice of appropriate experimental controls. This planning phase is followed by execution of the experiment and analyses of the data.</p>				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: Occasional seminars and 3 blocks of practicals conducted over several days.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: 1-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	1-hour Written Examination = 30%, Existing Coursework = 70%			
Module coordinator:	Dr M M Nevels			
Module teaching staff:	Dr M Nevels, Prof M White			

BL4211 Antimicrobials - Mode of Action and Resistance

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass BL3311			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars (x 9 weeks).			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%			
	As used by St Andrews: 1-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	1-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Dr P J Coote			
Module teaching staff:	Dr P Coote			

BL4212 How Enzymes Work

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass BL3301			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminars (x 10 weeks).			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: 2-hour Written Examination = 66%, Coursework = 34%			
Re-assessment pattern:	2-hour Written Examination = 66%, Existing Coursework = 34%			
Module coordinator:	Dr R Guimaraes da Silva			
Module teaching staff:	Dr R R Ramsay, Prof M White			

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BL4213 Molecular Virology				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass BL3311			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars (x 5 weeks), 1 x 1-hour seminar (x 2 weeks), 2 x 3-hours seminars across the semester			
	Scheduled learning: 14 hours		Guided independent study: 136 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	Dr C S Adamson			
Module teaching staff:	Team taught			

BL4215 Bacterial Virulence Factors				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass BL3301			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lecture (x 5 weeks), 3 x 3-hour student talks			
	Scheduled learning: 19 hours		Guided independent study: 131 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 30%, Coursework = 30%			
	As used by St Andrews: 1.5-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Dr U Schwarz-Linek			

BL4216 Structure-based Drug Discovery

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 4 weeks) and 1 x 2-hour student presentations in teams representing imaginary drug companies (x 3 weeks).			
	Scheduled learning: 14 hours		Guided independent study: 136 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 40%, Coursework = 20%			
	As used by St Andrews: 1.5-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Dr T M Gloster			
Module teaching staff:	Dr T Gloster, Prof G Taylor, Dr J Nairn			

BL4222 Metabolic and Clinical Biochemistry

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 9 weeks), 2 x 3-hour students presentations for 1 week			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 35%, Coursework = 35%			
	As used by St Andrews: 1.5-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	1.5-hour Written Examination = 30%, Existing Coursework = 70%			
Module coordinator:	Dr G R Prescott			
Module teaching staff:	Dr G Prescott and invited NHS staff			

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BL4223 Molecular and cell biology of eukaryotic DNA replication				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass BL3301 and pass BL3302			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	Dr S A MacNeill			

BL4224 Molecular Mechanisms of Membrane Trafficking				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass BL3303			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 20%, Coursework = 55%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Dr G R Prescott			
Module teaching staff:	Dr G Prescott, Dr J Tilsner			

BL4225 Advanced Microscopy and Image Analysis - Seeing is Believing

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
This module will introduce you to advanced imaging techniques, such as Confocal, Super-resolution, TIRF and Electron Microscopy and how these techniques have been utilised to address fundamental questions in Cell and Developmental Biology. You will get the opportunity to research techniques that are at the forefront of modern Biology and to develop skills in ImageJ analysis of imaging data, a skill that will be central to the advancement of bioscience in the coming years. Activities will be supplemented with research talks from academics at the cutting edge of their field and the opportunity to see advanced imaging techniques in practice.				
Pre-requisite(s):	Before taking this module you must pass BL3303 or pass BL3315			
Anti-requisite(s)	You cannot take this module if you take BL5420			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 133 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 30%, Coursework = 50%			
	As used by St Andrews: 1.5-hour Written Examination = 20%, Coursework = 80%			
Re-assessment pattern:	1.5-hour Written Examination = 20%, Existing Coursework = 80%			
Module coordinator:	Dr M Bischoff			

BL4226 Chromatin and Genome Stability

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
This module will introduce 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, Caenorhabditis elegans and Drosophila melanogaster. 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.				
Pre-requisite(s):	Before taking this module you must pass BL3302			
Anti-requisite(s)	You cannot take this module if you take BL5421			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: 1.5-hour Written Examination = 20%, Coursework = 80%			
Re-assessment pattern:	1.5-hour Written Examination = 20%, Existing Coursework = 80%			
Module coordinator:	Dr H C Ferreira			
Module teaching staff:	Dr H Ferreira			

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BL4232 Neuroethology				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Neuroethology is the study of the neural control of natural animal behaviour from a comparative biological perspective. In this module we focus mainly on behaviours arising from the interactions between predators and their prey. Predators and prey are locked in an evolutionary arms race which continuously refines and improves the abilities of predators to locate and capture prey, and of prey to detect and evade predators. This strong selective pressure has produced some spectacular adaptations in both the nervous systems and the overall anatomy of the animals concerned. This, combined with the usually unambiguous motivation of the animals involved in predator-prey interactions (eat or starve, escape or be eaten) has made such adaptations favoured targets for study by neuroscientists, behavioural scientists, and biomechanicists. Students on this module will undertake a series of guided case studies researching the primary literature, and the module will also include some hands-on laboratory work. The aim is both to uncover some general principles of neural and biomechanical organisation, and also to reveal the variety and ingenuity with which evolution has found different solutions to shared problems.</p>				
Pre-requisite(s):	Before taking this module you must pass BL2101			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Dr M W Oram			
Module teaching staff:	Dr W Heitler, Prof K Sillar			

BL4249 Scientific Diving				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Full Time 2-3 weeks in January/February			
<p>This module will provide both theoretical and practical experience of the techniques used by scientific divers. The module is restricted to students who have an existing diving qualification (PADI Advanced Open Water Diver or BSAC Sports Diver or equivalent). Seminars during the field trip will cover diving safety, dive project planning, management, risk assessment and the theory behind underwater surveying techniques. Abroad, students will receive training in underwater marine identification, construction and deployment of underwater surveys and sampling techniques, gaining practical experience of recording, analysing and interpreting survey data. Then they conduct a mini-research project using suitable survey techniques and present their findings through a report and a presentation. There are additional costs attached to this module which the student will be expected to meet.</p>				
Pre-requisite(s):	Before taking this module you must pass BL4251. "permission of biology honours adviser required, padi advanced open water diver or bsac sports diver (or equivalent)"			
Learning and teaching methods of delivery:	Weekly contact: 8 hours per day for 2 weeks.			
	Scheduled learning: 96 hours		Guided independent study: 54 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 45%, Coursework = 55%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof C Peddie			
Module teaching staff:	Prof C Peddie, Dr M Dornelas			

BL4251 Tropical Marine Biology

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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. 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>				
Learning and teaching methods of delivery:	Weekly contact: Lectures and seminars.			
	Scheduled learning: 21 hours		Guided independent study: 129 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof C Peddie			

BL4232 Neuroethology

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Neuroethology is the study of the neural control of natural animal behaviour from a comparative biological perspective. In this module we focus mainly on behaviours arising from the interactions between predators and their prey. Predators and prey are locked in an evolutionary arms race which continuously refines and improves the abilities of predators to locate and capture prey, and of prey to detect and evade predators. This strong selective pressure has produced some spectacular adaptations in both the nervous systems and the overall anatomy of the animals concerned. This, combined with the usually unambiguous motivation of the animals involved in predator-prey interactions (eat or starve, escape or be eaten) has made such adaptations favoured targets for study by neuroscientists, behavioural scientists, and biomechanicists. Students on this module will undertake a series of guided case studies researching the primary literature, and the module will also include some hands-on laboratory work. The aim is both to uncover some general principles of neural and biomechanical organisation, and also to reveal the variety and ingenuity with which evolution has found different solutions to shared problems.</p>				
Pre-requisite(s):	Before taking this module you must pass BL2101			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Dr M W Oram			
Module teaching staff:	Dr W Heitler, Prof K Sillar			

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BL4254 Fisheries Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass BL3309			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 45%, Coursework = 25%			
	As used by St Andrews: 1.5-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	1.5-hour Written Examination = 30%, Existing Coursework = 70%			
Module coordinator:	Dr C G M Paxton			
Module teaching staff:	Dr C Paxton			

BL4255 Marine and Environmental Biotechnology				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module will examine the diversity of useful natural products or services that are derived from marine organisms or other natural environments. In particular it will cover a variety of novel compounds of pharmaceutical or nutraceutical value considering also the process from bio-prospecting through the drug discovery pipeline to clinical use. In addition the module will examine other compounds and processes from marine and environmental sources that have application in ways. These include biotechnology in aquaculture and environmental management, bioengineering and sustainable use of natural resources through biotechnology. The societal, ethical and environmental issues associated with technical exploitation of the natural environment are also considered. Learning and assessed work are designed to foster creativity and ingenuity, and to present a 'business-facing' aspect of biology.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Practical Examinations = 30%, Coursework = 70%			
Re-assessment pattern:	Resubmission of failed element of Coursework			
Module coordinator:	Dr V J Smith			

BL4256 Marine Bioacoustics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 7 x 2-hour seminars, 8 x 1-hour seminars and 2 x 3-hour practical over a 4 week period			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 25%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Prof P L Tyack			
Module teaching staff:	Prof P Tyack, Prof V Janik			

BL4258 Foraging in Marine Mammals				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass BL3319			
Learning and teaching methods of delivery:	Weekly contact: Introductory lecture plus 3 x 1-hour lectures (x 3 weeks), 2 x 2-hour student-led seminars (x 4 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	2-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Prof P Miller			
Module teaching staff:	Prof P Miller, Dr S Smout, Dr D Thompson			

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BL4259 Marine Mammals and Man				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Marine mammals interact with human activities in a variety of ways and are frequently the focus of more general concerns about the health and exploitation of marine ecosystems. This module explores the impact of these activities on individuals and populations of seals and cetaceans, and vice versa. Most marine mammals species are long-lived and slow reproducing and the impacts of unmanaged human activities can be severe; a number of species or populations are threatened as a result. The module explores how best to provide robust scientific advice to inform conservation and management at local, national and international level.</p>				
Pre-requisite(s):	Before taking this module you must pass BL3318			
Learning and teaching methods of delivery:	Weekly contact: 12 x 2-hour seminars over two weeks followed by 4 x 3-hour presentation assessment sessions at the end of the semester.			
	Scheduled learning: 36 hours		Guided independent study: 114 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof P S Hammond			
Module teaching staff:	Prof P S Hammond, Dr S Northridge, Dr A Hall, Dr Gordon			

BL4260 Biological Oceanography				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>This module will provide primarily seminar-based instruction on the fundamentals of Biological Oceanography (BO). A few introductory lectures will focus on basic principles in BO and oceanography, including physical and geochemical principles as they apply to biological oceanography. Students will present seminars on particular focus areas within each lecture topic, based upon reading primary literature. BO is a broad field, so the module will provide an overview of the field with depth in a few chosen areas. At least one practical will be offered on the use of remote-sensing data for ocean observation, and we hope to develop a practical of zooplankton sampling. This module should coordinate especially well with marine acoustics and scientific diving.</p>				
Pre-requisite(s):	Before taking this module you must pass BL3318			
Learning and teaching methods of delivery:	Weekly contact: 10 x 2-hour seminars (x 6 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	2-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Prof P Miller			

BL4262 Environmental Drivers of Marine Habitats

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module aims to give a broad overview of the different environmental drivers of marine ecosystems. Shorter term processes in the ocean and atmosphere as well climate define marine habitats and a series of lectures will be provided to assure that students have the broad background required to tackle primary literature in this field and can apply their knowledge within different fields of marine science. Students will present on particular focus areas within each lecture topic, based upon reading primary literature.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 2 x 2-hour seminar or lecture (x 5 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 40%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module coordinator:	Dr L Boehme			

BL4263 The Question of Culture in Cetaceans

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
The existence and extent of social learning and cultural transmission in non-humans is a very active area of current research, as well as of controversy, with an active ongoing debate. The aim of this module is to provide an introduction to this area through considering the conceptual issues and direct and indirect evidence for cultural transmission in cetaceans, the whales and dolphins. We will consider what is meant by the term 'culture', how it can be studied in non-humans, and the evidence for and against such processes being present in cetacean societies.				
Pre-requisite(s):	Before taking this module you must pass BL3319			
Learning and teaching methods of delivery:	Weekly contact: 10 x 2-hour seminars over 6 weeks			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 10%, Coursework = 50%			
	As used by St Andrews: 1.5-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Dr L E Rendell			
Module teaching staff:	Dr L Rendell			

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BL4266 Conservation Research Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
The conservation of animal and plant populations relies initially on information of population sizes and trends. This information can only be collected by fieldwork. This module teaches the basic field techniques that underpin the monitoring of populations. Each week the theory behind a different technique is introduced, then the technique is practiced in the field, and finally data collected by the technique are analysed and discussed in a workshop at the end of the week, so that a full understanding of a technique and its proper application is gained. The module ends with students carrying out a project applying and integrating the techniques they have learnt.				
Pre-requisite(s):	Before taking this module you must pass BL3309			
Learning and teaching methods of delivery:	Weekly contact: Variable combination of lectures, field practicals, data collection in the field and analysis workshops per week for 10 weeks			
	Scheduled learning: 40 hours		Guided independent study: 110 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof W R L Cresswell			
Module teaching staff:	Prof W Cresswell			

BL4268 Science Communication of Biodiversity and Conservation				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module will focus on the scientific problems associated with the conservation and sustainable use of animals and plants, and on the way in which scientific advice on these issues is provided. Initial lectures will cover sustainable development and the precautionary principle; the causes of extinction; the economics of conservation; management of exploitation; and estimating species richness. After this student-led seminars will cover a range of more specialist issues of current concern. Practical work on population viability analysis, classifying populations using the IUCN criteria, and species richness estimation may be included.				
Pre-requisite(s):	Before taking this module you must pass BL3309			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks) plus 6 additional 2-hour lectures during the semester			
	Scheduled learning: 34 hours		Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 40%, Coursework = 60%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr M A Azeredo de Dornelas			
Module teaching staff:	Dr M Dornelas			

BL4270 Plant-environment Interactions				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks), plus 1 x additional seminar			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 34%, Coursework = 66%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof J Jones			

BL4274 Evolutionary Developmental Biology				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
Evolution of new morphologies involves changes to the development of organisms. The field of evolutionary developmental biology is thus becoming established as a major and essential component of any comprehensive understanding of evolutionary biology. This module aims to cover some of the main, current themes in evolutionary developmental biology. Since animal life evolved in the sea, much of what we can learn about the major events in animal evolution can be obtained from studying marine invertebrates. Consequently the examples covered in this module will tend to be drawn from these organisms.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr D E K Ferrier			
Module teaching staff:	Dr D Ferrier, Dr I Somorjai			

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BL4275 Evolution in Action				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module will focus on recent developments relating to evolutionary biology, placing particular emphasis on research related to medical or societal application or public policy. Examples of topics to be covered include: emergent diseases, biodiversity policy, conservation management, biological impacts of climate change, and public understanding of science.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks) plus an additional 2 x 2-hour seminars.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof T R Meagher			

BL4278 Biology of Dinosaurs and Other Extinct Vertebrates				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 35%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Prof G D Ruxton			
Module teaching staff:	Prof G Ruxton			

BL4279 The CRISPR system for Antiviral Defence and Genome Engineering				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
The discovery of the CRISPR system, which provides adaptive antiviral immunity in prokaryotes, has made facile genome engineering a reality. This has resulted in an ongoing revolution in molecular biology and opened the door to a wide variety of applications in healthcare, agriculture and biotechnology. It also raises many ethical considerations. In this module, students will study the molecular biology of the CRISPR system in prokaryotes in depth, touching on the history of discovery, biological mechanisms and the context of antiviral defence systems. Building on this, students will gain an appreciation of the potential applications of this technology in biotechnology and healthcare, and develop a proposal for a novel application, taking into account the practical and ethical considerations.				
Pre-requisite(s):	Before taking this module you must pass BL3302			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 5 weeks), 3 seminars (x 3 weeks)			
	Scheduled learning: 19 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, 1.5-hour Written Examination = 40%			
Re-assessment pattern:	Coursework = 60%, 1.5-hour Written Examination = 40%			
Module coordinator:	Prof M F White			
Module teaching staff:	Prof M White			

BL4280 Evolution and Human Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 1.5-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	1.5-hour Written Examination = 40%, Existing Coursework = 60%			
Module coordinator:	Dr M M Webster			
Module teaching staff:	Dr M Webster. Dr K Cross, Dr L Dean, Dr C Evans, Dr A Navarrete			

Biology - Honours Level - 2018/9 - August - 2018

BL4282 Biology and Behaviour of Social Insects				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar (x 11 weeks).			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Prof P G Willmer			
Module teaching staff:	Prof P Willmer, Dr A Gardner, Dr G Ballantyne			

BL4285 Complex Systems in Animal Behaviour				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Permission of biology honours adviser required			
Learning and teaching methods of delivery:	Weekly contact: 14 x 1-hour seminars plus 4 x 2-hour computer-based practical classes over 8 weeks			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: 2-hour Written Examination = 25%, Coursework = 75%			
Re-assessment pattern:	2-hour Written Examination = 25%, Existing Coursework = 75%			
Module coordinator:	Dr V A Stokes			
Module teaching staff:	Dr V A Smith			

BL4286 Advanced Topics in Evolution

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 10 weeks).			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 50%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module coordinator:	Prof M G Ritchie			
Module teaching staff:	Dr N Bailey, Prof M Ritchie			

BL4288 Major Review Paper in Evolutionary Biology

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
<p>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.</p>				
Pre-requisite(s):	Before taking this module you must pass BL3307			
Anti-requisite(s)	You cannot take this module if you take BL5440			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar (x 5 weeks), 1-hour tutorial (week 3,4,6)			
	Scheduled learning: 13 hours		Guided independent study: 138 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr M B Morrissey			
Module teaching staff:	Dr M Morrissey, Dr A Gardner, Prof O Gaggiotti			

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BL4289 Animal Cognition				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass BL3319			
Anti-requisite(s)	You cannot take this module if you take BL5441			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar (x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 133 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof S D Healy			
Module teaching staff:	Prof S Healy			

BL4301 Polar Ecology: A field course in Antarctica				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	To be confirmed			
Planned timetable:	To be arranged.			
<p>This module will provide a theoretical and practical introduction to the marine ecology of Antarctica with emphasis on marine top predators (sea birds and marine mammals), ecosystem functionality and conservation issues. Students will participate in a two-week vessel-based expedition to Antarctica during the austral summer (northern winter). This field trip involves traveling to southern Argentina, conducting at-sea surveys of whales, seals and sea birds during transit to/from the Antarctic Peninsula, participating in shore-based activities (e.g. observations at penguin colonies, visit to active research station), and exploring Antarctic coastal waters from small boats and the ice-strengthened vessel. Through a series of lectures, workshops, on-board practicals and field excursions, students will gain appreciation of and insights into the diversity, complexity, scientific and management challenges of the Antarctic ecoregion. Participating students will need to cover all logistic expenses via payment of a substantial expedition fee.</p>				
Pre-requisite(s):	You must have a medical certificate documenting fit for travel to remote antarctic. Before taking this module you must pass BL2307 or pass BL3308 or pass BL3318			
Learning and teaching methods of delivery:	Weekly contact: 2.5-week field trip involving extensive travel and 100 hours of contact time on the ship			
	Scheduled learning: 100 hours		Guided independent study: 50 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr S Heinrich			
Module teaching staff:	Dr S Heinrich, Dr L Boehme			

BL4601 Research Project Development and Methodology

SCOTCAT Credits:	20	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the MBiochem, MBIol and MMarBiol degree programmes			
Planned timetable:	Distance learning during External Placement			
<p>This distance learning module will look in detail at the processes involved in creating a scientific research project. The aim of the module is for the students to develop independent thought in experimental design. While on placement, a series of online assessments will test the students' ability to critically analyse research literature, identify core and specialised techniques in the biosciences, design experiments for specific research questions, quantitatively and statistically analyse data and publish research in the appropriate manner. The students should ultimately gain valuable skills necessary for successful independent research careers.</p>				
Pre-requisite(s):	"approved entry on to the mbiochem, mbiol or mmarbiol degree programmes"			
Learning and teaching methods of 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 coordinator:	Dr J Nairn			
Module teaching staff:	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	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the MBiochem, MBIol and MMarBiol degree programmes			
Planned timetable:	External placement			
<p>The module constitutes an independent 7-12 month external research placement hosted by an independent institute/company. The project will be fully supervised at the host institute/company and student performance will be assessed jointly by the immediate supervisor and a member of staff in the School of Biology. During the module students will have the opportunity to practice and learn a range of scientific and generic skills, including an element of independent working, in a working environment outside St Andrews. Ultimately, the module will allow students to gain substantial research experience and work experience thus enhancing their future employability.</p>				
Pre-requisite(s):	Approved entry on to the mbiochem degree			
Learning and teaching methods of 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 coordinator:	Dr J Nairn			
Module teaching staff:	Individual Supervisors across the School of Biology			

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BL4603 External Research Placement				
SCOTCAT Credits:	90	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Only available to students on MBiochem, MBiol or MMarBiol programmes			
Planned timetable:	To be arranged			
<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 practise 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>				
Anti-requisite(s)	You cannot take this module if you take BL4602			
Learning and teaching methods of delivery:	This is a Study Abroad or External Placement module			
	Weekly contact:			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J Nairn			

BL5000 Research Project Development and Methodology				
SCOTCAT Credits:	30	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Anti-requisite(s)	You cannot take this module if you take BL4601			
Learning and teaching methods of delivery:	This is a Study Abroad or External Placement module			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: TBC			
Module coordinator:	Dr J Nairn			

BL5410 Advanced Topics in Biomolecular Sciences				
SCOTCAT Credits:	30	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module will allow you to develop in-depth knowledge of research that is at the forefront of modern biomolecular sciences. You will hear about and discuss current research taking place within the School of Biology through tailored seminars and by attending the School seminar series. You will then have the opportunity to study one of these areas in depth as you write a review article on the subject area. You will then consider how to develop your research area into a funding application and into an industrial business plan. Your learning throughout the module will be supported by 1:1 tutorials that will guide the development of your review article and research proposals.				
Pre-requisite(s):	Before taking this module you must pass BL4601 and pass BL4602			
Learning and teaching methods of delivery:	Weekly contact: 2 x 2-hour seminars (x 7 weeks), 1-hour tutorial (x 7 week), 1.5-hour seminar/discussion session (x 22 weeks)			
	Scheduled learning: 68 hours		Guided independent study: 232 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr J Tilsner			
Module teaching staff:	Team taught			

BL5411 Advanced Topics in Biology				
SCOTCAT Credits:	30	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Enrolment is restricted to students on the MMarBiol and MBiol programmes			
Planned timetable:	To be arranged			
This module will allow you to develop advanced skills in data analysis and academic writing. You will have the opportunity to develop your 4th year placement research into a publication standard primary research article, mentored by a member of academic staff. You will then consider how to develop your research area into a funding application. Your learning throughout the module will be supported by 1:1 tutorials that will guide the development of your research article and research proposal.				
Pre-requisite(s):	Null			
Learning and teaching methods of delivery:	Weekly contact: 2 x 2-hour seminars (x 6 weeks), 1-hour tutorial (x 6 week), 1-hour seminar (x 22 weeks)			
	Scheduled learning: 52 hours		Guided independent study: 253 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr G R Prescott			
Module teaching staff:	Team Taught			

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BL5440 Major Review Paper in Evolutionary Biology				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar (x 5 weeks), 1-hour tutorial (week 3,4,6)			
	Scheduled learning: 13 hours		Guided independent study: 137 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr M B Morrissey			
Module teaching staff:	Dr M Morrissey, Dr A Gardner, Prof O Gaggiotti			

BL5441 Animal Cognition				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
In this module we will investigate the cognitive abilities of animals, with particular interest in understanding the adaptive value of those abilities. This means that although we will develop an understanding of animal cognition based on standard animal models (typically rats and pigeons), we will extend those principles to addressing cognitive abilities in 'real' animals behaving in the 'real' world. We will use Shettleworth's book, already the key animal cognition text, as our starting point with student-led seminars providing breadth by presenting examples from the recent burgeoning of literature on non-model animals. The result will be a stimulating opportunity to develop a critical understanding of how animals perceive their world, how their cognitive abilities are shaped by that world and how those abilities lead to reproductive success.				
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar (x 10 weeks),			
	Scheduled learning: 20 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 50%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Presentation = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof S D Healy			
Module teaching staff:	Prof S Healy			

BL5499 Advanced Laboratory Research Project				
SCOTCAT Credits:	60	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass BL4601 and pass BL4602			
Learning and teaching methods of delivery:	Weekly contact: 1 dedicated meeting with supervisor per week.			
	Scheduled learning: 33 hours		Guided independent study: 567 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of failed item(s) of Coursework			
Module coordinator:	Dr C S Adamson			
Module teaching staff:	Individual Supervisors across the School of Biology			

School of Chemistry

Chemistry (CH) modules

CH3431 Chemistry Workshop

SCOTCAT Credits:	10	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Planned timetable:	To be arranged.			
The aim of the module is to provide a basis in organic spectroscopy, molecular symmetry and point groups and their application to inorganic spectroscopy, and crystallography and X-ray diffraction. In addition, students will gain experience in chemical information retrieval and searching on-line databases.				
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {CH2501, CH2601, CH2603, CH2701}			
Learning and teaching methods of 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: 36 hours		Guided independent study: 64 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%			
	As used by St Andrews: 3 Practical Examinations, total 6 hours = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R A Aitken			
Module teaching staff:	Dr R A Aitken, Dr T Lebl, Prof M Buehl, Prof P Lightfoot, Prof W Zhou, Prof P A Wright, Prof D Philp, Dr C H Botting, Prof S E M Ashbrook			

CH3441 Mini Chemistry Project

SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 12.30 pm Mon - Fri for 5 weeks (Weeks 7 - 11).			
This is a group-based exercise where the students will tackle an unseen problem. Skills to be developed will vary but will include some or all of the following: The use of spectroscopy, retrosynthetic analysis, literature searching, web based searching and design, synthesis, catalysis, mechanistic studies, computational chemistry, surface chemistry, biological chemistry, communication skills.				
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {CH2501, CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 3.5-hours x 5 days (Weeks 7 - 11)			
	Scheduled learning: 88 hours		Guided independent study: 112 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: 30-minute Practical Examination = 60%, Coursework = 40%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Prof M L Clarke			
Module teaching staff:	A selection of the Academic Staff			

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CH3512 Organometallic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module offers a systematic introductory treatment of organometallic compounds, emphasising fundamental concepts and the principal functional groups of organometallic chemistry. Topics include: the haptic nomenclature and 18-electron rule; synthesis of complexes of CO, alkyl, alkene, alkyne and carbocyclic ligands; static and dynamic structures; reactions of coordinated ligands; unit processes involved in homogeneous catalytic cycles.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 1 - 3 lectures per week over 5 - 7 weeks (Weeks 1 - 7) and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr A Stasch			
Module teaching staff:	Dr P Webb			

CH3513 Chemistry of Materials				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module brings together a number of advanced concepts including advanced crystal chemistry, extended defects, semiconductor band theory and properties, phase equilibria and phase transformations. It is key to the understanding of many aspects of modern materials science.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 1 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr P A Connor			
Module teaching staff:	Dr P A Connor, Dr R T Baker			

CH3514 Physical Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module aims to develop the student's understanding of the mechanisms that lie behind the reactions of inorganic compounds. The material will include studies of the different types of reactions that occur at metal centres and how they operate in complex systems such as metal-containing drugs and homogeneous catalysis. A second major component of the module will cover the use of spectroscopic techniques, including multinuclear NMR and EPR, to characterise main group and other inorganic compounds.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks within Weeks 1 - 11 and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr B E Bode			
Module teaching staff:	Dr B E Bode, Dr E Zysman-Colman			

CH3521 Inorganic Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 12.30 pm (Weeks 1 - 5)			
This module comprises practical experiments involving synthesis, characterisation and measurements in inorganic chemistry.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: Daily 3.5-hour morning practical classes (Weeks 1 - 5).			
	Scheduled learning: 70 hours		Guided independent study: 30 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Dr P Kilian			
Module teaching staff:	Dr P Kilian, Dr E Zysman-Colman, Dr A Stasch, Dr B Chalmers			

Chemistry - Honours Level - 2018/9 - August - 2018

CH3612 Synthetic Methodology				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>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.</p>				
Pre-requisite(s):	Before taking this module you must (pass CH2601 or pass CH2603) and pass at least 1 module from {CH2501, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks (Weeks 1-7) and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof N J Westwood			
Module teaching staff:	Prof N J Westwood, Prof M L Clarke			

CH3613 Carbohydrate and Nucleic Acid Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>The aim of the module is to cover aspects of the chemistry of nucleic acids. It will begin with an introduction to carbohydrate chemistry including discussion of biological processes, the synthesis of carbohydrates and carbohydrate-based pharmaceuticals. The structure and chemical synthesis of nucleic acids will then be discussed. The chemical reactivity of DNA and the ways in which it is chemically damaged will be examined. The chemical reactions of DNA will be related to mechanisms of carcinogenesis. The ways in which a range of drugs interact with DNA will be discussed in detail.</p>				
Pre-requisite(s):	Before taking this module you must (pass CH2601 or pass CH2603) and pass at least 1 module from {CH2501, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks (Weeks 1-7) and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr G J Florence			
Module teaching staff:	Dr G J Florence, Dr E R Kay			

CH3615 Mechanism in Organic Chemistry

SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
The objective of this module is to provide the student with a thorough understanding of the mechanistic aspects of organic chemistry. A problem-solving approach is employed in order to develop the ability to elucidate information, both qualitative and quantitative, concerning reaction mechanisms from experimental data. The module will also focus on the critical role of orbitals in determining the reactivity and selectivity of organic compounds. Reaction mechanism described as a flow of electrons through a correctly aligned orbital manifold will be developed as a tool to explore key topics in synthetic chemistry, with particular emphasis on stereoelectronic effects and aspects of alicyclic chemistry.				
Pre-requisite(s):	Before taking this module you must (pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, CH2701}) or pass 2 modules from {CH2501, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 1 - 3 lectures per week over 9 - 10 weeks within Weeks 1-11 and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof D Philp			
Module teaching staff:	Prof D Philp, Prof A D Smith			

CH3621 Organic Chemistry Laboratory

SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 12.30 pm Mon to Fri (Weeks 1 - 5)			
Practical experiments involving synthesis, characterisation and measurements in organic chemistry.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Anti-requisite(s)	You cannot take this module if you take CH3622			
Learning and teaching methods of delivery:	Weekly contact: Daily 3.5-hour morning practical classes over 5 weeks (Weeks 1 - 5).			
	Scheduled learning: 70 hours		Guided independent study: 30 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Prof M L Clarke			
Module teaching staff:	Dr I A Smellie, Dr N S Keddie, Dr R J M Goss			

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CH3622 Organic Chemistry Laboratory (Materials)			
SCOTCAT Credits:	10	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	9.00 am - 12.30 pm Mon to Fri (Weeks 1 - 5)		
Practical experiments involving synthesis, characterisation and measurements in organic chemistry with a particular emphasis on organic materials. Students will perform a selection of the experiments undertaken by CH3621 students in addition to 2-3 special materials experiments.			
Pre-requisite(s):	Before taking this module you must (pass CH2601 or pass CH2603) and pass at least 1 module from {CH2501, CH2701}		
Anti-requisite(s)	You cannot take this module if you take CH3621		
Learning and teaching methods of delivery:	Weekly contact: Daily 3.5-hour morning practical classes over 5 weeks (Weeks 1-5).		
	Scheduled learning: 70 hours	Guided independent study: 30 hours	
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 teaching staff:	Dr I A Smellie, Dr N S Keddie, Dr R J M Goss		

CH3712 Quantum Theory of Atoms, Molecules and Solids			
SCOTCAT Credits:	10	SCQF Level 9	Semester 2
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass CH2701 and pass at least 1 module from {CH2501, CH2601, CH2603}		
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks (Weeks 1-7) and 2 - 3 tutorials in total.		
	Scheduled learning: 17 hours	Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr G Haehner		
Module teaching staff:	Dr F D Morrison, Dr G Haehner		

CH3715 Introduction to Analysis of Materials			
SCOTCAT Credits:	10	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	To be arranged.		
The objective of this module is to introduce the principles of the most popular materials analysis methods using X-ray, ion beams, electrons and diffraction methods. The module will cover analytical principles of scanning and transmission electron microscopy (SEM, TEM), X-ray photoelectron spectroscopy (XPS) and Auger electron spectroscopy (AES) together with secondary ion mass spectroscopy (SIMS) and X-ray Diffraction methods (XRD). Diffraction techniques will also be covered with the introductory aspects of Electron Energy Loss Spectroscopy (EELS) together with vibrational spectroscopic techniques.			
Pre-requisite(s):	Before taking this module you must pass CH2701 and pass at least 1 module from {CH2501, CH2601, CH2603}		
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 5 - 7 weeks (Weeks 1-7) and 2 - 3 tutorials in total.		
	Scheduled learning: 17 hours	Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr R T Baker		
Module teaching staff:	Dr R T Baker, Prof W Zhou		

CH3716 Quantitative Aspects of Medicinal Chemistry			
SCOTCAT Credits:	10	SCQF Level 9	Semester 1
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass 2 modules from {CH2501, CH2601, CH2701}		
Anti-requisite(s)	You cannot take this module if you take CH3717		
Learning and teaching methods of delivery:	Weekly contact: 1 - 3 lectures per week over 9 - 10 weeks within Weeks 1-11 and 2 - 3 tutorials in total.		
	Scheduled learning: 18 hours	Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr T Van Mourik		
Module teaching staff:	Dr T van Mourik, Prof N J Westwood, tba		

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CH3717 Statistical Mechanics and Computational Chemistry				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module combines the study of statistical mechanics with an introduction to theoretical and computational methods as applied in modern chemistry. In the first set of lectures the molecular basis of thermodynamics is covered in an introduction to the study of statistical mechanics. The use of computational chemistry in the modern drug design process will then be discussed, covering force field calculations, molecular docking, QSAR and virtual screening.				
Pre-requisite(s):	Before taking this module you must pass CH2701 and pass at least 1 module from {CH2501, CH2601, CH2603}			
Anti-requisite(s)	You cannot take this module if you take CH3716			
Learning and teaching methods of delivery:	Weekly contact: 1 - 3 lectures per week over 9 - 10 weeks within Weeks 1-11 and 2 - 3 tutorials in total.			
	Scheduled learning: 17 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr T Van Mourik			
Module teaching staff:	Dr T van Mourik, Dr J B O Mitchell			

CH3721 Physical Chemistry Laboratory				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 1.00 pm Mon to Fri (Weeks 7-10)			
This module comprises practical experiments involving physical measurements and the use of computational programmes in Chemistry.				
Pre-requisite(s):	Before taking this module you must pass CH2701 and pass at least 1 module from {CH2501, CH2601, CH2603}			
Learning and teaching methods of delivery:	Weekly contact: Daily 4-hour morning practical classes over 4 weeks (Weeks 7 - 10).			
	Scheduled learning: 70 hours		Guided independent study: 30 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Prof M Buck			
Module teaching staff:	Prof P A Wright, Prof M Buck, Dr R Schaub, Dr T van Mourik, Prof M Buehl			

CH4421 Chemistry Research Skills Laboratory				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Only available to students enrolled in MChem Chemistry, MChem Materials Chemistry or MChem with Medicinal Chemistry			
Planned timetable:	9:00 - 13:00			
This module integrates advanced practical inorganic, organic and physical chemistry. The major objective is improvement of problem solving abilities and confidence in independent research work in a chemical laboratory. This will be achieved via - (1) problem-solving driven design of a variety of experiments based on literature precedent (from electronic databases and primary literature) - (2) adjusting the identified procedures to available equipment and characterisation techniques - (3) performing experiments with due care and safety - (4) evaluation of results via written and oral laboratory reports.				
Pre-requisite(s):	Before taking this module you must pass CH3521 and (pass CH3621 or pass CH3721)			
Anti-requisite(s)	You cannot take this module if you take CH4442			
Learning and teaching methods of delivery:	Weekly contact: Two or three days a week, 3.5-hour morning practical classes or 2 hour workshops between Semester 1 - Week 1 and Semester 2 - Week 8			
	Scheduled learning: 166 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module teaching staff:	Dr P Kilian, Dr B Chalmers, Dr I Smellie, Dr S King, Prof P Lightfoot, Prof M Buck			

CH4431 Scientific Writing				
SCOTCAT Credits:	20	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Only available to students on the MChem Chemistry, Chemistry with Medicinal Chemistry and Materials Chemistry programmes			
Planned timetable:	To be arranged			
This module aims to provide a comprehensive experience in sourcing and working with scientific literature related to a topic of chemical research, and seeks to develop a number of important skills concerning the dissemination of complex ideas to a wider scientific audience. Via a short sequence of seminars, supervisory meetings, and on line resources, students are provided with detailed guidance on how to conduct a research literature search and evaluate critically scientific articles. In addition, students will develop skills relating to the communication of science, both written and oral. As a consequence, this module provides valuable experience and preparation for a Final Year Honours Research Project. An insight into the academic peer review process is also provided.				
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {CH2501, CH2601, CH2603, CH2701}			
Anti-requisite(s)	You cannot take this module if you take CH4442			
Co-requisite(s):	You must also pass CH4421			
Learning and teaching methods of delivery:	Weekly contact: 2-hours seminar (x 4 weeks), 1hr weekly meeting with supervisor (x 6 weeks), (1 x 3hr) mini-symposium attendance			
	Scheduled learning: 17 hours		Guided independent study: 186 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Short Presentation = 10%, Coursework = 90%			
Re-assessment pattern:	Resubmission of coursework = 100%			
Module coordinator:	Dr T Van Mourik			
Module teaching staff:	Dr T Van Mourik , Dr R Schaub, Dr S King, Dr K Jones			

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CH4441 External Placement				
SCOTCAT Credits:	90	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on Chemistry degree programmes with External Placement			
Planned timetable:	Please Contact School			
This module is intended to provide each individual student with direct experience of work in an industrial or similar laboratory. Activities are very varied, according to the nature of the particular company's or organisation's area of business. Some students will be engaged in synthetic work and some in analytical/measurement activities. Some will be based exclusively in a laboratory, while others will also be involved in liaison with the company's plant operators or with its customers.				
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {CH2501, CH2601, CH2603, CH2701}			
Co-requisite(s):	You must also take CH4454 and take CH4455 and (take CH4453 or take CH4456) or take FR5810			
Learning and teaching methods of 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 coordinator:	Dr G Haehner			

CH4442 Chemistry Research Project				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {CH2501, CH2601, CH2603, CH2701}			
Anti-requisite(s)	You cannot take this module if you take all modules from {CH4441, CH4444, CH4445, CH4446, CH4447, CH4448, CH4449, ID4441}			
Learning and teaching methods of 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: 220 hours		Guided independent study: 374 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: 1-hour Practical Examination = 20%, Coursework = 80%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Dr T Van Mourik			

CH4453 Chemistry Distance Learning (Materials Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the MChem Materials Chemistry, MChem Materials Chemistry with External Placement and BSc Materials Chemistry degree programmes.			
Planned timetable:	n/a - Distance Learning			
This distance-learning module allows students to develop an advanced understanding of the basic concepts of various topics in Materials Chemistry.				
Pre-requisite(s):	Only chemistry students on external placements may take this module. . Before taking this module you must pass at least 2 modules from {CH2501, CH2601, CH2603, CH2701}			
Anti-requisite(s)	You cannot take this module if you take CH4452			
Co-requisite(s):	For programmes with an external placement: CH4441 and CH4454 and CH4455			
Learning and teaching methods of 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 teaching staff:	Dr F D Morrison, Dr R T Baker			

CH4455 Chemistry Distance Learning (Inorganic Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the MChem Chemistry with External Placement, MChem Chemistry with Medicinal Chemistry and External Placement and MChem Materials Chemistry with External Placement degree programmes.			
Planned timetable:	n/a - Distance learning			
This module offers the material covered by level 4000 BSc/MChem module CH4514 in a distance learning mode to students on the MChem one-year placement. See the module description for CH4514 for details of module content.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, ch2701}. Only chemistry students on external placement may take this module.			
Anti-requisite(s)	You cannot take this module if you take CH4514 or take CH4451			
Co-requisite(s):	You must also take CH4441 and take CH4454 and (take CH4456 or take CH4453)			
Learning and teaching methods of 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 teaching staff:	Dr E Zysman-Colman, Dr B Bode			

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CH4456 Chemistry Distance Learning (Organic Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the MChem Chemistry with External Placement and MChem Chemistry with Medicinal Chemistry and External Placement degree programmes.			
Planned timetable:	n/a - Distance Learning			
This module offers the material covered by level 4000 BSc/MChem module CH4614 in a distance learning mode to students on the MChem one-year placement. See the module description for CH4614 for details of module content.				
Pre-requisite(s):	Before taking this module you must pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, ch2701}. Only chemistry students on external placement may take this module.			
Anti-requisite(s)	You cannot take this module if you take CH4614 or take CH4451			
Co-requisite(s):	You must also take CH4441 and take CH4454 and take CH4455			
Learning and teaching methods of 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 teaching staff:	Dr R A Aitken, Dr E Kay			

CH4458 Chemistry Distance Learning (Physical Chemistry)				
SCOTCAT Credits:	10	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the MChem Chemistry with External Placement, MChem Chemistry with Medicinal Chemistry and External Placement, and MChem Materials Chemistry with External Placement degree programmes.			
Planned timetable:	n/a - Distance learning			
This module offers the material covered by level 4000 BSc/MChem module CH4716 in a distance learning mode to students on the MChem one-year External Placement. See the module description for CH4716 for details of module content.				
Pre-requisite(s):	Before taking this module you must pass CH2701 and pass 1 module from {CH2501, CH2601, CH2603}			
Anti-requisite(s)	You cannot take this module if you take CH4714 or take CH4454 or take CH4451 or take CH4716			
Co-requisite(s):	You must also take CH4441			
Learning and teaching methods of delivery:	Weekly contact: n/a distance learning			
	Scheduled learning: 0 hours		Guided independent study: 100 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Open-book problem-solving assessment) = 100%			
Re-assessment pattern:	Re-assessment by oral examination. Students will be required to return to St Andrews at an appropriate time (for example at the end of their external placement) to be re-assessed. Details of reassessment as for CH4716.			
Module teaching staff:	Prof M Buck, Prof M Buehl			

CH4461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass at least 3 modules from {CH2501, CH2601, CH2603, CH2701}			
Anti-requisite(s)	You cannot take this module if you take CH5461			
Learning and teaching methods of delivery:	Weekly contact: 2 classes per week over 8 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars			
	Scheduled learning: 18 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R Schaub			
Module teaching staff:	all staff			

CH4514 Advanced Metal Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Anti-requisite(s)	You cannot take this module if you take CH4455			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr B E Bode			
Module teaching staff:	Dr E Zysman-Colman, Dr B E Bode			

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CH4515 Advanced Main Group Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr P Kilian			
Module teaching staff:	Dr P Kilian, Dr A Stasch			

CH4612 Blockbuster Pharmaceuticals				
SCOTCAT Credits:	10	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total, plus a half day site visit.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof D O'Hagan			
Module teaching staff:	Prof D O'Hagan and visiting industrial lecturers			

CH4614 Heterocyclic and Pericyclic Chemistry			
SCOTCAT Credits:	10	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
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>			
Pre-requisite(s):	Before taking this module you must (pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, CH2701}) or (pass 2 modules from {CH2501, CH2701} and pass CH1601 or pass CH1202)		
Anti-requisite(s)	You cannot take this module if you take CH4456		
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total, plus a half-day site visit.		
	Scheduled learning: 20 hours	Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr R A Aitken		
Module teaching staff:	Dr R A Aitken, Dr E R Kay		

CH4615 Fragrance, Food and Colour Chemistry			
SCOTCAT Credits:	10	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
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>			
Pre-requisite(s):	Before taking this module you must (pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, CH2701}) or (pass 2 modules from {CH2501, CH2701} and pass CH1601 or pass CH1202)		
Anti-requisite(s)	You cannot take this module if you take CH4613		
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total		
	Scheduled learning: 20 hours	Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-assessment pattern:	Oral Re-assessment = 100%		
Module coordinator:	Dr R A Aitken		
Module teaching staff:	Dr R A Aitken, Dr R J M Goss, Prof T K Smith		

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CH4715 Functional Materials and Electrons in Solids				
SCOTCAT Credits:	10	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CH2701 and pass at least 1 module from {CH2501, CH2601, CH2603}			
Anti-requisite(s)	You cannot take this module if you take CH5712			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr F D Morrison			
Module teaching staff:	Dr F D Morrison, Prof M Buck			

CH4716 Electrochemistry and Computational Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
One component of the module covers electrolyte solutions and ionic conductivity, equilibrium electrochemistry, electrode processes and applications of electrochemistry. The other component is a computational element, and will introduce aspects of modern computational chemistry related to the electronic structure of atoms, molecules and solids to achieve a basic understanding of the underlying approximations made in practical calculations, and consider applications of computed structures and energies in chemistry.				
Pre-requisite(s):	Before taking this module you must (pass CH2701 and pass 1 module from {CH2501, CH2601, CH2603}) or (pass 2 modules from {CH2501, CH2701} and pass CH1601 or pass CH1202)			
Anti-requisite(s)	You cannot take this module if you take CH4714 or take CH4457 or take CH4454 or take CH4451			
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures (x 9 weeks) and 2 hours of tutorials over the semester.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module teaching staff:	Prof M Buck, Prof M Buehl			

CH4717 Fundamentals of the Spectroscopy of Molecules and Solids				
SCOTCAT Credits:	10	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module describes the properties of matter relevant to their interaction with electromagnetic radiation. Absorption, transmission, reflection and diffraction of light across the electromagnetic spectrum are covered. There is a focus on microwave, infrared and NMR spectroscopy. Solid-state NMR spectroscopy will be compared with solution-state NMR and the advantages of solid-state NMR in obtaining structural information discussed.				
Pre-requisite(s):	Before taking this module you must pass CH2701 and (pass CH2501 or pass CH2601 or pass CH2603)			
Anti-requisite(s)	You cannot take this module if you take CH4713			
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures (x 9 weeks) and 2 hours of tutorials over the semester.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-Hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module teaching staff:	Dr R Schaub, Prof S E M Ashbrook			

CH5441 Research Project				
SCOTCAT Credits:	60	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2 days per week, to be arranged.			
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.				
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {CH2501, CH2601, CH2603, CH2701}			
Anti-requisite(s)	You cannot take this module if you take all modules from {CH4444, CH4445, CH4446, CH4447, CH4448, CH4449, ID4441}			
Learning and teaching methods of delivery:	Weekly contact: Students spend a minimum of 27 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, 18 to 20 hours per week are laboratory related.			
	Scheduled learning: 220 hours		Guided independent study: 374 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: 1-hour Practical Examination = 20%, Coursework = 80%			
Re-assessment pattern:	No Re-assessment available, requires lab attendance to complete coursework			
Module coordinator:	Dr T Van Mourik			
Module teaching staff:	all staff			

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CH5461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass 3 modules from {CH2501, CH2601, CH2603, CH2701}			
Anti-requisite(s)	You cannot take this module if you take CH4461			
Learning and teaching methods of delivery:	Weekly contact: 2 classes per week over 8 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars.			
	Scheduled learning: 18 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R Schaub			
Module teaching staff:	all staff			

CH5511 Homogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module discusses the use of metal based systems in organic transformations and a detailed treatment of homogeneous catalysis. Important processes in the petrochemicals industry will be used to exemplify the principles described.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr P B Webb			
Module teaching staff:	Prof R P Tooze, Dr P Webb			

CH5517 Advanced Physical Inorganic Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module involves distinct sections on photophysics of coordination complexes including theory and applications, and inorganic 'open shell' compounds including synthesis, characterisation and applications of paramagnetic inorganic species.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CH2501 and pass 1 module from {CH2501, CH2601, ch2603}. Undergraduate - before taking this module you must pass CH2501 and pass at least 1 module from {CH2501, CH2601, CH2603}			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr E Zysman-Colman			
Module teaching staff:	Dr E Zysman-Colman, Dr B Bode			

CH5518 Blockbuster Solids				
SCOTCAT Credits:	10	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, ch2701}. Undergraduate - before taking this module you must pass CH2501 and pass at least 1 module from {CH2601, CH2603, CH2701}			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof P Lightfoot			
Module teaching staff:	Prof P Lightfoot, Prof R E Morris			

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CH5611 Asymmetric Synthesis				
SCOTCAT Credits:	10	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must (pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, CH2701}) or (pass 2 modules from {CH2501, CH2701} and pass CH1601 or pass CH1202)			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof M L Clarke			
Module teaching staff:	Prof 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:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must (pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, CH2701}) or (pass 2 modules from {CH2501, CH2701} and pass CH1601 or pass CH1202)			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof D O'Hagan			
Module teaching staff:	Prof D O'Hagan, Prof T K Smith, Dr G J Florence			

CH5613 Reactive Intermediates				
SCOTCAT Credits:	10	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must (pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, CH2701}) or (pass 2 modules from {CH2501, CH2701} and pass CH1601 or pass CH1202)			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R A Aitken			
Module teaching staff:	Dr R A Aitken, Dr I A Smellie			

CH5614 Chemical Biology				
SCOTCAT Credits:	10	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module will examine new methodologies for drug discovery. An overview of the processes of target discovery, lead discovery and lead optimisation will be given. The use of structural biology (protein crystallography, NMR), computational chemistry and combinatorial chemistry in 'rational drug design' will be described. The module will look at the technologies behind combinatorial library design, synthesis and high throughput screening. Broad and focused libraries will be discussed. Several examples will be explored, such as the development of drugs against AIDS and influenza.				
Pre-requisite(s):	Before taking this module you must (pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, CH2701}) or (pass 2 modules from {CH2501, CH2701} and pass CH1601 or pass CH1202)			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof N J Westwood			
Module teaching staff:	Prof N J Westwood, TBC			

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CH5616 Molecular Recognition				
SCOTCAT Credits:	10	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must (pass 1 module from {CH2601, CH2603} and pass at least 1 module from {CH2501, CH2701}) or (pass 2 modules from {CH2501, CH2701} and pass CH1601 or pass CH1202)			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof D Philp			
Module teaching staff:	Prof D Philp, Dr E R Kay			

CH5711 Advanced Spectroscopic Methods				
SCOTCAT Credits:	10	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass CH2701			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials per week.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof C J Baddeley			
Module teaching staff:	Prof C J Baddeley, Dr G Haehner			

CH5713 Surface Science and Heterogeneous Catalysis				
SCOTCAT Credits:	10	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass CH2701			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof C J Baddeley			
Module teaching staff:	Prof C J Baddeley, Prof P A Wright			

CH5714 Chemical Applications of Electronic Structure Calculations				
SCOTCAT Credits:	10	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CH2501 and pass CH2701 and pass CH3712 and pass CH3717. Undergraduate - before taking this module you must pass CH2501 and pass CH2701 and pass CH3712 and pass CH3717			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof M Buehl			
Module teaching staff:	Prof M Buehl, Dr J B O Mitchell			

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CH5715 Energy Conversion and Storage				
SCOTCAT Credits:	10	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CH2501 and pass CH2701. Undergraduate - before taking this module you must pass CH2501 and pass CH2701			
Anti-requisite(s)	You cannot take this module if you take CH4712			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Dr R T Baker			
Module teaching staff:	Dr R T Baker, Prof J T S Irvine, Dr A R Armstrong			

CH5716 Processing of Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module focuses on the processing of materials, ceramics in particular. Fundamental properties such as crystallinity, composition, crystal phase, phase mixing, domain structure, grains and grain boundaries, as well as porosity will be covered. The main methods used to control these properties in order to develop and improve materials for specific applications will be addressed. Processes such as calcination, sintering, annealing, plasma treatments, mechanical working, crystallisation and dopant addition will be addressed. A discussion will be made on the influence of these processes on specific ceramic systems using phase diagrams. Specific techniques for preparation of bulk and thinner components, including sol-gel method, casting, extrusion, physical and chemical vapor deposition, screen printing or tape casting will be discussed. The role of various aspects of materials processing and their influence on the material and its integration in practical devices will be addressed.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CH2501 and pass CH2701			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof J T S Irvine			
Module teaching staff:	Prof J T S Irvine, Dr C Savaniu			

CH5717 Nanostructured Materials				
SCOTCAT Credits:	10	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass CH2501 and pass CH2701			
Learning and teaching methods of delivery:	Weekly contact: 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total.			
	Scheduled learning: 20 hours		Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment = 100%			
Module coordinator:	Prof W Zhou			
Module teaching staff:	Prof W Zhou, Prof M Buck			

School of Classics

Ancient Archaeology (AA) modules

AA3020 Principles and Techniques in Archaeology			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available only to students in Honours Ancient History and Archaeology or Honours Mediaeval History and Archaeology		
Planned timetable:	To be arranged		
<p>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. There is no particular concentration on any one historical period and material is chosen rather to illustrate a broad range of methods and issues.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {AN2002, AN2003, CL2003, CL2004} or (pass ME2003 and pass at least 1 module from {AN2003, HI2001, MH2002, MO2008})		
Anti-requisite(s)	You cannot take this module if you take AN3020		
Learning and teaching methods of delivery:	Weekly contact: Induction class in Orientation Week followed by 2 hours of lectures and seminars and 1 coursework consultation hour per week		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	New coursework of equivalent weight to a 3-hour Honours exam (2 essays or one long essay)		
Module coordinator:	Dr E H Cousins		

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AA4002 From Pompeii to Aquileia: the Archaeology of Roman Italy (50 BCE - 300 CE)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
<p>At the height of the empire, Italy was one of the most prosperous and densely populated areas of the Mediterranean. Its centrality in imperial politics and culture, as well as its long history, have contributed to an unparalleled archaeological record that fascinates scholars and the world outside academia. This module will offer an overview of this rich material, exploring a range of issues such as the impact of empire; the nature of local public life; social and economic life; urban and rural settlements; and aspects of religious life. It will include case-studies of cities like Pompeii, Ostia and Aquileia, as well as of regions like the Tiber valley and Sicily. The module will discuss the nature of the archaeological evidence in rural and urban archaeology, and its implications for the understanding of the history and material culture of a key area of the Roman empire.</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C A Ribeiro Machado			
Module teaching staff:	Dr C Machado			

AA4121 The Ancient City of Rome				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
<p>This module examines the history and archaeology of the city of Rome from its earliest beginnings to the fifth century CE. Several themes are pursued, in particular the view of Rome as a centre of power and patronage, the capital of empire and residence of kings and emperors. Rome's physical development, the problems of feeding and administering such an immense ancient city, the architectural and artistic implications of rulers' aspirations, and the urban religions are all explored. The course will guide students through the topography of the modern as well as of the ancient city, making them aware of contemporary controversies concerning urban development, atmospheric pollution, conservation of antiquities and mass-tourism pressures.</p>				
Pre-requisite(s):	As stated in the school of classics undergraduate handbook			
Anti-requisite(s)	You cannot take this module if you take AN4121			
Learning and teaching methods of delivery:	Weekly contact: Induction meeting in Orientation Week followed by 2 hours of lectures and seminars, and 1 coursework consultation hour per week.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J C N Coulston			
Module teaching staff:	Dr J Coulston			

AA4130 The Roman Army			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser		
Planned timetable:	TBC		
<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>			
Pre-requisite(s):	As stated in the school of classics undergraduate handbook		
Anti-requisite(s)	You cannot take this module if you take AN4130		
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures and seminars, and 1 coursework consultation hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr J C N Coulston		
Module teaching staff:	Dr J Coulston		

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Ancient History (AN) modules

AN3034 Approaches to Ancient History			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser		
Planned timetable:	TBC		
Whereas antiquarians let the sources set their agenda, historians start with questions. As a preparation for the serious study of Ancient History at honours level, this module aims to make students better historians through close study of a selection of challenging and innovative works of scholarship. Each week students will read a book or article that revolutionised its field. They will learn that major advances often involve posing entirely new questions or finding novel ways of approaching familiar problems. They will learn the value (and the limits) of models, theory and different types of evidence. They will finish with a clearer appreciation of the wide range of approaches open to ancient historians and the importance of choosing between them.			
Pre-requisite(s):	Entry to honours ancient history		
Learning and teaching methods of delivery:	Weekly contact: Induction class in Orientation Week followed by 2 hours of lectures and seminars and 1 coursework consultation hour per week.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	New Coursework = 100%		
Module coordinator:	Dr C A Ribeiro Machado		
Module teaching staff:	TBC		

AN4141 Greek Tyranny			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser		
Planned timetable:	To be arranged		
Rulers such as Dionysius of Syracuse, Pisistratus of Athens and Artemisia of Halicarnassus are some of the most colourful figures of Greek history, yet the phenomenon of one-person rule in the ancient state receives comparatively little attention. In this module we will consider the nature of individual rule in the Greek state and its effects on the lives of citizens and non-citizens, as well as the development of ancient political thought. Coverage will be from the 700s to the 200s BC, studying tyrannies in Greece, Magna Graecia and Asia Minor. We will also examine how the reception of these figures has changed over time, and the way that historians such as Herodotus and thinkers such as Plato and Aristotle have shaped our vision of government in ancient Greece.			
Pre-requisite(s):	As stated in the school of classics undergraduate handbook		
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars (x 11 weeks)		
	Scheduled learning: 22 hours	Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr S Lewis		

AN4155 Religious Communities in the Late Antique World				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
<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>				
Pre-requisite(s):	As stated in the school of classics undergraduate handbook			
Learning and teaching methods of delivery:	Weekly contact: Induction meeting in Orientation Week followed by 2 hours of lectures and seminars, and 1 coursework consultation hour per week.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 coordinator:	Dr C A Ribeiro Machado			
Module teaching staff:	Dr C Machado			

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Classical Studies (CL) modules

CL4406 Herodotus				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
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.				
Pre-requisite(s):	As stated in the school of classics undergraduate handbook			
Anti-requisite(s)	You cannot take this module if you take GK4123			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar and 1 coursework consultation hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R T Anderson			
Module teaching staff:	Dr R Anderson			

CL4433 Religions of the Greeks				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
Religion reached into virtually every corner of life in the ancient Greek world, from the family home to the political assembly, from the field of battle to the neighbourhood feast. 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.				
Pre-requisite(s):	As stated in the school of classics undergraduate handbook			
Learning and teaching methods of delivery:	Weekly contact: Induction meeting in Orientation Week followed by 2 hours of lectures and seminars, and 1 coursework consultation hour per week.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R T Anderson			
Module teaching staff:	Dr R Anderson			

CL4435 Greek Theatre				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
<p>The extensive and elaborate funding and organization that lay behind Athens' theatrical festivals can tell us a lot about Athenian society. Material and textual evidence for the theatres' layout, stage conventions and framing ceremonies are crucial for the interpretation of Greek drama. This module will combine study of the Greek theatre's physical, ideological, religious and economic status with close reading of selected plays to address fundamental questions: why were tragedy, comedy, satyr plays and dithyrambs staged under auspices of Dionysus? Was Greek theatre specifically 'democratic' or more generally 'civic' in terms of its character, organization and sociology? How and why did Greek drama change and spread beyond Athens' borders? Did these dramatic genres speak to Athenians' own lives or take them to different realms through its myths and fantasies? This module is not just about reading the set plays in translation, then. And the first few weeks focus on the historical sources for, and some material culture of, the rituals, finances and politics of the theatre in classical Attica. It thereby draws on the latest research and eschews arbitrary boundaries between 'literature' and 'history'. The module offers fresh perspectives and skills, regardless of your degree programme.</p>				
Anti-requisite(s)	You cannot take this module if you take CL4416			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Module coordinator:	Dr J P Hesk			
Module teaching staff:	Dr J Hesk			

CL4445 Women in Ancient Societies				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
<p>This module studies women and gender in Greece, the Hellenistic world and the Roman Republic and Empire from different perspectives. It will consider representations of women in literature, epigraphy and art, legal and forensic evidence, and medical treatises. It will look at women in the context of ancient families and city communities, marriage, children, ritual and religion and the existence or otherwise of outlets for 'individual' fulfilment.</p>				
Pre-requisite(s):	As stated in the school of classics undergraduate handbook			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars, and 1 coursework consultation hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Lewis			

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CL4455 Roman Praise				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
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.				
Pre-requisite(s):	As stated in the school of classics undergraduate handbook			
Learning and teaching methods of delivery:	Weekly contact: Induction meeting in Orientation Week followed by 2 hours of lectures and seminars, and 1 coursework consultation hour per week.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 coordinator:	Dr R D Rees			
Module teaching staff:	Dr R Rees			

CL4464 The Religious Sense in the Classical Roman World				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	To be arranged			
This module aims to introduce students to Roman religiosity in the classical Roman world, from the second century BCE to the second century CE. The module will take as a reference framework Lucretius' de Rerum Natura and his criticism against any metaphysical impulse (focusing in particular on his diatribe against love in book 4). It will reconstruct Lucretius' intellectual opponents, focusing especially on literary sources, including earlier texts and authors (Roman comedy, Cato), contemporaries of Lucretius (Cicero, Catullus), and later writers (Virgil, Seneca, Tacitus, Imperial inscriptions, and early Christian texts, such as Minucius Felix and the Passio Perpetuae).				
Pre-requisite(s):	As stated in the school of classics undergraduate handbook			
Learning and teaching methods of delivery:	Weekly contact: One 2-hour seminar per week (x11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 10%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Pezzini			

CL4604 Greek Sculpture				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
The art of ancient Greece still holds power today. But how would objects such as the Parthenon Marbles or the Venus de Milo have been understood and experienced by ancient viewers? This module traces the development of Greek sculpture from the Archaic through to the Classical and Hellenistic periods, starting with Archaic kouroi and concluding with Bactrian art in what is now Afghanistan. It explores the changing aesthetics and styles of sculpture in the Greek world, and examines the social roles and architectural contexts of sculptural art from cult statues to grave stelae. It also considers the part played by Roman copies in our knowledge and understanding of Greek statues.				
Learning and teaching methods of delivery:	Weekly contact: Induction meeting in Orientation Week followed by 2 hours of lectures and seminars and 1 coursework consultation hour per week.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E H Cousins			
Module teaching staff:	Dr E Cousins			

CL4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The dissertation must consist of 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/)				
Pre-requisite(s):	A letter of agreement			
Anti-requisite(s)	Cannot take more than 30 credits in other dissertation/project modules			
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			

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CL4795 Joint Dissertation (60cr)				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The dissertation must consist of 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. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Pre-requisite(s):	The student may not take another dissertation / project module. A letter of agreement			
Anti-requisite(s)	Cannot take any other dissertation/project module			
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			

CL4990 Teaching and Learning in Classics and Ancient History				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to students also taking ID4002.			
Planned timetable:	To be arranged.			
This module is designed to complement ID4002 'Communication and Teaching in Arts & Humanities', a placement module in which students gain substantial experience of a working educational environment, and of communicating aspects of the Greek and Roman world to school pupils. This module provides the opportunity for students to carry out an extended piece of work on a topic related to their work in ID4002. For example, the topic could have a pedagogical focus, exploring the place of Classics in education, or it could be a more detailed exploration of a subject related to the student's special topic in ID4002.				
Pre-requisite(s):	As stated in the school of classics undergraduate handbook			
Co-requisite(s):	You must also take ID4002			
Learning and teaching methods of delivery:	Weekly contact: 1-hour briefing in third year; 1-hour research training; 2 hours (in total) of supervisory meetings.			
	Scheduled learning: 4 hours		Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of the dissertation			
Module coordinator:	Dr R T Anderson			

CL4997 Dissertation (Non-Graduating) (30)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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/)				
Anti-requisite(s)	You cannot take this module if you take CL4996			
Learning and teaching methods of 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 teaching staff:	Individual supervisors assigned as required			

CL4999 Dissertation (Short) in Ancient History, Ancient History and Archaeology, or Classical Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of the classical world, including ancient history, and/or ancient archaeology, but the topic must be approved by the Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.				
Anti-requisite(s)	You cannot take this module if you take CL4996 or take CL4997 or take CL4998 or take LT4999 or take GK4998 or take GK4999			
Learning and teaching methods of 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: 274 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Dissertation) = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr D L Hollis			
Module teaching staff:	Individual supervisors assigned as required			

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Greek (GK) modules

GK3021 Greek for Honours Classics 1: Special Option				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am - 11.00 am 4 days a week (Tue - Fri)			
<p>This module is for students who, having taken Latin in both of their first two years, but only begun Greek in their second year with GK1001 and GK1002, are entering Honours Classics or joint Honours Greek in their third year. It consists of 4000-level analysis and essay work together with consolidation of the student's prior knowledge of the Greek language, practice in translation skills, and training in techniques of literary analysis. The module will concentrate on the study of selected genres of Greek poetry and prose and aims to foster an awareness of the interrelationships between later and earlier periods of Greek literature, such as Homeric epic and the Greek literature of the Roman empire. For details of each year's prescribed texts, consult the module booklet and/or the School of Classics Honours booklet.</p>				
Pre-requisite(s):	Available only to students in an honours programme in classics. Before taking this module you must pass GK1002 and pass LT2004			
Anti-requisite(s)	You cannot take this module if you take GK2003			
Learning and teaching methods of delivery:	Weekly contact: Induction in Orientation Week, then 3 or 4 classes weekly.			
	Scheduled learning: 41 hours		Guided independent study: 259 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (essay, 20%, 3 class tests, 40%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M J Carroll			
Module teaching staff:	Team taught			

GK3022 Greek for Honours Classics 2: Special Option				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	10.00 am - 11.00 am 4 days a week (Tue - Fri)			
<p>This module is for students who, having taken Latin in both of their first two years, but only begun Greek in their second year with GK1001 and GK1002, are entering Honours Classics or joint Honours Greek in their third year. It consists of 4000-level analysis and essay work together with consolidation of the student's prior knowledge of the Greek language, practice in translation skills, and training in techniques of literary analysis. The module will concentrate on the study of selected genres of Greek poetry and prose and aims to foster an awareness of the 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>				
Pre-requisite(s):	Available only to students in an honours programme in classics. Before taking this module you must pass GK3021			
Anti-requisite(s)	You cannot take this module if you take GK2004			
Learning and teaching methods of delivery:	Weekly contact: 3 or 4 classes.			
	Scheduled learning: 36 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (essay, 20%, 3 class tests, 40%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N Wiater			
Module teaching staff:	Team taught			

GK4110 Imagining the Symposium				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
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.				
Anti-requisite(s)	You cannot take this module if you take CL4503			
Learning and teaching methods of 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:	2-hour Written Examination = 40%, Unseen test = 15%, Coursework = 45%			
Module coordinator:	Prof F S Halliwell			
Module teaching staff:	Prof S Halliwell			

GK4117 Lies, History and Ideology				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
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.				
Learning and teaching methods of delivery:	Weekly contact: Induction in Orientation Week then 2 hours of lectures and seminars, and 1 coursework consultation hour each week.			
	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:	2-hour Written Examination = 40%, Unseen test = 15%, Coursework = 45%			
Module coordinator:	Dr A G Long			
Module teaching staff:	Dr A Long			

Classics - Honours Level - 2018/9 - August - 2018

GK4119 Texts and Objects in the Greek World				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	Wednesday			
<p>How do texts evoke the experience of viewing and touching objects? How does this differ from the sensory experience of objects? Where does the boundary lie between texts and objects in instances of inscribed three-dimensional objects such as coins, inscriptions and statues, or 'technopaegnia' (poems written in the shape of an object)? This module innovatively combines the study of texts in Greek with material objects including art. As such it has a reduced set text component while it has an additional booklet of set images; and it includes an object handling session. The set texts are passages carefully chosen from a broad range including Homer, Hellenistic epigrams and novels of the imperial period. Texts and images are studied side by side for what they reveal about Greek attitudes to everyday objects like tableware and weapons, through special artefacts like penknives and automata, to high art by named artists, and monuments and buildings such as sculpted gravestones and temples.</p>				
Pre-requisite(s):	40 credits from GK2001, GK2002, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Learning and teaching methods of delivery:	Weekly contact: 2-hour class (x10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 286 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A I Petsalis-Diomidis			
Module teaching staff:	Dr A Petsalis-Diomidis			

GK4121 Violence in Early Greek Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
<p>This module explores the role of violence in early Greek culture. The primary focus will be on literature, and we will study closely relevant passages from a broad range of texts in the original Greek (Homer, Hesiod, Simonides, Pindar/ Bacchylides, Solon and others). But we will also attempt to put the literature into a broader context by looking at some significant pieces of art (vase painting, sculpture, etc.). The aim of the module is to achieve a better understanding of ways of depicting violence in early Greek literature and art (the language of violence, if you like), how ancient attitudes to violence differ from modern ones, and what the function of violence is within the context of the artefacts we will examine.</p>				
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module coordinator:	Dr N Wiater			

GK4998 Dissertation in Greek (Long)				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the final year of the Single Honours Greek programme.			
Planned timetable:	To be arranged.			
This module provides the opportunity for students in Single Honours Greek to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of Greek life or literature, provided that the study of Greek texts is involved. The topic must be approved by the Dissertations Co-ordinator. The dissertation will be completed over one or two semesters, and the maximum length is 20,000 words (see module booklet for details).				
Pre-requisite(s):	40 credits from GK2001, GK2002, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Anti-requisite(s)	You cannot take this module if you take CL4999 or take CL4998 or take CL4997 or take CL4996 or take LT4999 or take GK4999			
Learning and teaching methods of delivery:	Weekly contact: 1-hour briefing in third year; 1-hour research training; 8 hours of supervisory meetings.			
	Scheduled learning: 10 hours		Guided independent study: 590 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Dissertation) = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr D L Hollis			
Module teaching staff:	Individual supervisors assigned as required			

GK4999 Dissertation in Greek				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
This module provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of Greek life or literature, provided that the study of Greek texts is involved. The topic must be approved by the Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.				
Pre-requisite(s):	Available only to students in single honours greek. 40 credits from GK2001, GK2002, GK2003, GK2004, including one pass at 11 or better, or a pass in GK3022, or evidence of equivalent linguistic achievement.			
Anti-requisite(s)	You cannot take this module if you take CL4999 or take CL4998 or take CL4997 or take CL4996 or take GK4998 or take LT4999			
Learning and teaching methods of delivery:	Weekly contact: 1-hour briefing in third year; 1-hour research training; 4 hours (in total) of supervisory meetings.			
	Scheduled learning: 6 hours		Guided independent study: 294 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Dissertation) = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr D L Hollis			
Module teaching staff:	Individual supervisors assigned as required			

Classics - Honours Level - 2018/9 - August - 2018

Latin (LT) modules

LT3017 Latin for Honours Classics 1				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	2.00 pm - 3.00 pm Tue,Thu and Fri			
This module is for students who, having taken Greek in both of their first two years, but only begun Latin in their second year with LT1001 and LT1002, are entering Honours Classics or joint Honours Latin in their third year. It consists of the whole of the 20-credit LT2003 module, with some additional set text reading in Latin and an additional piece of Honours-level assessment. The module is assessed by one Honours-level essay (30%), one literary criticism (20%) two class tests (10%) and an end-of-semester exam (40%).				
Pre-requisite(s):	Before taking this module you must pass LT1002 and pass GK2004			
Anti-requisite(s)	You cannot take this module if you take LT2003			
Learning and teaching methods of delivery:	Weekly contact: 2 - 4 meetings per week plus attendance at selected 4000-level LT seminars.			
	Scheduled learning: 47 hours		Guided independent study: 253 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework (1 essay, 30%; 1 literary criticism, 20%; 2 class tests, 10%) = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E R G Gee			
Module teaching staff:	Team taught			

LT3018 Latin for Honours Classics 2				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	2.00 pm - 3.00 pm Tue,Thu and Fri			
This module is for students who, having taken Greek in both of their first two years, but only begun Latin in their second year with LT1001 and LT1002, are entering Honours Classics or joint Honours Latin in their third year. It consists of the whole of the 20-credit LT2004 module, with some additional set text reading in Latin and an additional piece of Honours-level assessment.				
Pre-requisite(s):	If not already passed you must take LT3017			
Anti-requisite(s)	You cannot take this module if you take LT2004			
Co-requisite(s):	If not already passed you must take LT3017			
Learning and teaching methods of delivery:	Weekly contact: 2 - 4 meetings per week plus attendance at selected 4000-level LT seminars.			
	Scheduled learning: 47 hours		Guided independent study: 253 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 40%; Coursework = 60% (1 essay, 30%; 1 literary criticism, 20%; 1 class test, 10%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N Manioti			
Module teaching staff:	Team taught			

LT4201 Roman Epic				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
For many, Roman epic is the Aeneid. But where did Virgil's poem come from, and where did it go? What were the literary influences which shaped the composition of the Aeneid; how were its techniques and innovations built upon by those who came after? How are the archetypal motifs of Greek epic manhood, kleos and war - replayed in the central themes of Roman epic, fratricide, tyrannicide and civil war? Virgil epitomises one Roman epic modality; but we shall also explore others, reading selected portions from a range of Latin epics in this module. 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.				
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Learning and teaching methods of delivery:	Weekly contact: Induction in Orientation Week then 1 x 2-hour seminar and 1 coursework consultation hour each week.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (commentary and essay tasks, 45%, class test, 15%)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E L Buckley			
Module teaching staff:	Team taught			

LT4203 Latin Prose Composition				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
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.				
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.			
Learning and teaching methods of delivery:	Weekly contact: 2 seminars and 1 coursework consultation hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (2 class tests, 30% each)			
Re-assessment pattern:	2-hour Written Examination = 40%, Coursework = 60% (2 class tests, 30% each)			
Module coordinator:	Dr J Coderch			

Classics - Honours Level - 2018/9 - August - 2018

LT4207 Roman Comedy				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
<p>The module aims to delve into the comic world of the Latin playwrights Plautus and Terence and its cultural background. At the beginning of its political rising in the Mediterranean, when Rome was still, from a cultural point of view, a provincial Hellenistic city, the comic genre became one of the fields in which the new-born literature took its first steps, trying to keep pace with its other more sophisticated rivals. The names of Plautus and Terence emerge from that time and their plays form a corpus which is only slightly smaller than that of the Homeric poems. Key topics that will be considered in the analysis of this variegated theatrical universe are: the relation with the Greek originals and its problems; the influence of other cultural traditions, such as the Italic and the Hellenistic, and their interaction with the more distinctive elements of Roman culture; the comparison between Plautus and Terence; the impact of historical events such as the victory over Cartago, Pergamum and Greece; genre conventions, stock-characters and their subversion. The module will also examine the reception of comedy in later Latin literature, and its influence on the history of western theatre and culture.</p>				
Anti-requisite(s)	You cannot take this module if you take CL4403			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hours seminar and 1 coursework consultation hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (2 source criticisms 30%; essay 15%; class test 15%)			
Re-assessment pattern:	2-hour Written Examination = 40%, Coursework = 60% (2 source criticisms 30%; essay 15%; class test 15%)			
Module coordinator:	Dr G Pezzini			

LT4215 Senecan Tragedy				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
<p>This module will explore in Latin and translation a selection of Senecan Tragedy, the 'dark side' of Seneca the Younger's literary output. We will examine the influence of Greek and Roman tragic and epic antecedents, set the 'nefarious' poetics of Senecan drama against Seneca's philosophical writings, and consider the political resonances of writing tyranny, victimhood and despair in the reign of Nero. The module will also offer the opportunity to explore the cultural impact of Seneca's tragedies and examine the potent 'afterlife' of Senecan drama in revenge tragedy more generally.</p>				
Learning and teaching methods of delivery:	Weekly contact: 2 meetings			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60% (1 essay, 15%, 2 commentaries, 30%, 1 class-test, 15%)			
Module coordinator:	Dr E L Buckley			
Module teaching staff:	Dr E Buckley			

LT4220 Latin Lyric				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
This module adopts a thematic approach to the two most metrically versatile poets of the late Republic and early Empire, Catullus and Horace. The module will follow prescribed poems from both authors, organised into themes, such as Politics, Erotics, Greek legacy, Poetology, etc.				
Learning and teaching methods of 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 (including unseen translation test 15%) = 60%			
Re-assessment pattern:	2-hour Written Examination = 40%, Coursework (including unseen translation test 15%) = 60%			
Module coordinator:	Dr R D Rees			
Module teaching staff:	TBC			

LT4222 Floating Words: Anonymous Writing in Ancient Rome				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	Tuesday and Thursday, 10:00-11:00			
The world of Ancient Rome is full of homeless words, which travel down to us without the security of authors or dates over their heads. These take many forms, scaling up and down the social ladder. On the literary side, we have texts faking it as the work of someone else, famous or not; some others which became unhinged from their original author at a later date; and others still which remained anonymous all along, for good reasons, political or otherwise. On the borderlands of literature, we have a huge corpus of graffiti preserved from Pompeii, all of which comes to us as phantom voices from a social sphere whose surface classicists have only just started to scratch. There are also non-literary texts, such as legal documents, calling to us with the authority of their collective origins. Bringing this neglected material together, we will think about the mysteries of writing without clear context, and where these forms belong within their (and our) societies.				
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures and seminars (x 10 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, 2-hour Written Examination = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T A Geue			
Module teaching staff:	Dr Tom Geue			

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LT4999 Latin Dissertation			
SCOTCAT Credits:	30	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in second year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>This module provides the opportunity for students to carry out a sustained piece of work on a topic essentially of their own choice, with supervision by a member of staff. The dissertation may relate to any aspect of Roman life or literature, provided that the study of Latin texts is involved. The topic must be approved by the Head of School. The dissertation will be completed within one semester, and the maximum length is 7,500 words, exclusive of quoted material, appendices and bibliography, or 10,000 words including them. Dissertations must be submitted no later than the last day of revision week for the semester.</p>			
Pre-requisite(s):	40 credits from LT2001, LT2002, LT2003, LT2004, including one pass at 11 or better, or a pass in LT3018, or evidence of equivalent linguistic achievement.		
Anti-requisite(s)	You cannot take this module if you take CL4999 or take CL4998 or take CL4997 or take CL4996 or take GK4999 or take GK4998		
Learning and teaching methods of delivery:	Weekly contact: 1-hour briefing in third year; 1-hour research training; 4 hours (in total) of supervisory meetings.		
	Scheduled learning: 6 hours	Guided independent study: 294 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework (Dissertation) = 100%		
Re-assessment pattern:	Resubmission of Dissertation		
Module coordinator:	Dr D L Hollis		
Module teaching staff:	Individual supervisors assigned as required		

School of Computer Science

Computer Science (CS) modules

CS3052 Computational Complexity				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2101 or pass CS2001)			
Anti-requisite(s)	You cannot take this module if you take MT3852			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS3099 Software Engineering Team Project				
SCOTCAT Credits:	30	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not available to General Degree Students			
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 apply these concepts and practices to a substantial software engineering project as part of a team. Each team specifies, plans, designs, implements, tests and documents a medium-sized software system, under the guidance of a member of staff. Cooperation within and between teams is essential in order to produce successful solutions. The module provides the background and practical experience for students to enter professional careers where they will be working on large-scale software projects in teams.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2101 or pass CS2001)			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x 10 weeks) and 4 seminars			
	Scheduled learning: 34 hours		Guided independent study: 266 hours	
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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

Computer Science - Honours Level - 2018/9 - August - 2018

CS3101 Databases				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2101 or pass CS2001)			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS3102 Data Communications and Networks				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module covers the principles and practice of modern computer communications through studying network abstractions, protocols, architectures and technologies at all levels of the five-layer reference model.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and pass CS2003 and (pass CS2101 or pass CS2001)			
Anti-requisite(s)	You cannot take this module if you take CS5020			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS3104 Operating Systems			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	To be arranged.		
This module examines the changing role of the operating system, the concept and implementation of process, the OS/hardware interface with regard to storage and protection, and the techniques developed to achieve safety and throughput in multitasking systems.			
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2101 or pass CS2001)		
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.		
	Scheduled learning: 26 hours	Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%		
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)		

CS3105 Artificial Intelligence			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	To be arranged.		
This module examines the general features of the A.I. problem solving process, and in particular the various forms of heuristic, together with their implementation and case studies of real systems.			
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2101 or pass CS2001)		
Anti-requisite(s)	You cannot take this module if you take CS5010		
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)		

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CS3106 Human Computer Interaction			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	To be arranged.		
This module covers the main aspects of Human Computer Interaction. Design guidelines, structured design methods and standards are studied, and practice is given in implementation and evaluation. Students gain experience of current interactive audio, visual and manipulative technologies.			
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2101 or pass CS2001)		
Anti-requisite(s)	You cannot take this module if you take CS5040		
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.		
	Scheduled learning: 26 hours	Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%		
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)		

CS3301 Component Technology			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	To be arranged.		
This module provides students with understanding of current and emerging component technologies, focusing on the major themes of object-oriented and message-oriented middleware. The first theme examines the evolution of object-oriented programming into component models such as CORBA, COM, RMI and Java Beans. The second theme explores the emerging field of message-oriented middleware and of service-oriented computing models such as SOAP and REST.			
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2101 or pass CS2001)		
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)		

CS3302 Data Encoding				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module explains the techniques used to encode data, emphasising the ideas of security and secrecy, error correcting capabilities, and data compression.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2101 or pass CS2001)			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 110weeks) and fortnightly tutorial.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4052 Logic and Software Verification				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS3052			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

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CS4098 Minor Software Project				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module has the same content as CS4099, but with reduced scope appropriate for Joint Honours students.				
Pre-requisite(s):	Before taking this module you must pass CS3099			
Anti-requisite(s)	You cannot take this module if you take CS4099 or take CS4796			
Learning and teaching methods of delivery:	Weekly contact: Individual supervision			
	Scheduled learning: 68 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4099 Major Software Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS3099			
Anti-requisite(s)	You cannot take this module if you take CS4098 or take CS4796			
Learning and teaching methods of delivery:	Weekly contact: Individual supervision.			
	Scheduled learning: 68 hours		Guided independent study: 232 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4102 Computer Graphics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2001 or pass CS2101)			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4103 Distributed Systems				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS3102			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

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CS4144 Visual Analytics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module provides foundations for visual analytics. Visual analytics focuses on practical skills and knowledge that enable large scale analysis of real-world datasets, an increasingly important activity in research and industry. This includes three main important aspects: data preparation and processing, visual data representation and data analysis processes (both on a computational and human level).				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass CS2101)			
Anti-requisite(s)	You cannot take this module if you take CS5044			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4201 Programming Language Design and Implementation				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2001 or pass CS2101)			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4202 Computer Architecture				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS3104			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4203 Computer Security				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2001 or pass CS2101)			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

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CS4204 Concurrency and Multi-Core Architectures				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS3052 and pass CS3104			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4302 Signal Processing and Perception for Digital Media				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
The module will introduce students to the concepts of analogue and digital media and review current standards and technologies used in the production, transport and rendering of digital multimedia. Within the context of networked multimedia the concept of Quality-of-Service will be introduced and the issues involved in transporting time-sensitive data across computer networks will be explained. Specific examples drawn from Internet-based projects, protocols and standards will be used to illustrate these issues.				
Pre-requisite(s):	Before taking this module you must pass CS3102			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4303 Video Games				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2001 or pass CS2101)			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and fortnightly tutorial.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

CS4402 Constraint Programming				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS2002 and (pass CS2001 or pass CS2101)			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

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CS4499 Computer Science (Special Subject)				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Consent from the head of school required.			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)			

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

CS5010 Artificial Intelligence Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must (pass CS2001 or pass CS2101) and pass CS2002 - relates to ug programmes only			
Anti-requisite(s)	You cannot take this module if you take CS3105			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

CS5011 Artificial Intelligence Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	If not already passed you must take CS3105 or take CS5010			
Co-requisite(s):	If not already passed you must take CS3105 or take CS5010			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

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CS5012 Language and Computation				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass CS5010 or pass CS3052			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

CS5014 Machine Learning				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	There are 80 spaces available on this module. If necessary, a ballot will be held to select students for the module.			
Planned timetable:	To be arranged.			
Machine Learning enables computers to improve automatically with experience. A growing number of algorithms are being used to predict outcomes using patterns in collected data. This module covers the essential theory and algorithms, including mathematical foundations, and methodological approaches. It covers a variety of regression, classification and unsupervised approaches. It consists of lectures, and practical components with unassessed exercises and assessed practical coursework assignments with a final exam.				
Anti-requisite(s)	You cannot take this module if you take ID5059			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 lab session (x 5 weeks).			
	Scheduled learning: 27 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

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CS5020 Principles of Computer Communication Systems				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module aims to equip students with a deep knowledge of fundamental concepts and terminologies of computer communication systems (CCS). It will illustrate fundamental principles with reference to widely-used systems and technologies for CCS and enable students to use high level tools for networked systems configuration, exploration and management of CCS. Students will also be made aware of security and privacy principles and how they are used in CCS.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)			
Anti-requisite(s)	You cannot take this module if you take CS3102			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 tutorial (x 6 weeks)			
	Scheduled learning: 28 hours		Guided independent study: 119 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

CS5022 Practice in Computer Communication Systems				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module aims to introduce students to the applications, protocols and architecture of Computer Communication Systems in terms of their practical realisation, operation, control and management. It will enable them to use standard programming languages and tools in order to build communication applications and protocols and to use standard analytical and statistical tools for examining the operation and performance of communication applications, protocols and systems.				
Pre-requisite(s):	Undergraduate - before taking this module undergraduate students must pass CS3102			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks), 1 tutorial (x 4 weeks), lab session (x 4 weeks)			
	Scheduled learning: 32 hours		Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

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CS5030 Software Engineering Principles				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Undergraduate - undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

CS5031 Software Engineering Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

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CS5032 Critical Systems Engineering				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>The aim of this module is to provide students with an understanding of the concepts and development techniques used for critical, socio-technical systems. When students have completed this module they will: understand the notion of system dependability and the key characteristics of dependable systems; understand the specialised software engineering techniques that may be used to ensure dependable system operation; have practical experience of applying some of these techniques in systems specification, design or implementation.</p>				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS3099			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

CS5033 Software Architecture				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.</p>				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS3099			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

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CS5040 Human Computer Interaction Principles and Methods				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)			
Anti-requisite(s)	You cannot take this module if you take CS3106			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

CS5041 Interactive Software and Hardware				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	The module is available to all students enrolled on the MSc in Human Computer Interaction Programme. A ballot for students on other MSc programmes and final year MSci students wishing to take the module may be necessary due to lab equipment constraints.			
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.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)			
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

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CS5042 User-Centred Interaction Design			
SCOTCAT Credits:	15	SCQF Level 11	Semester 2
Academic year:	2018/9		
Availability restrictions:	The module is available to all students enrolled on the MSc in Human Computer Interaction Programme. A ballot for students on other MSc programmes and final year MSci students wishing to take the module may be necessary due to lab equipment constraints.		
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.			
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)		
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)		

CS5044 Information Visualisation			
SCOTCAT Credits:	15	SCQF Level 11	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
This module provides an introduction to information visualisation. 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. Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments.			
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101). Postgraduate - before taking this module you must pass CS5001 or pass CS5002		
Learning and teaching methods of 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 = 60%, Existing Coursework = 40%		
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)		

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CS5052 Data-Intensive Systems			
SCOTCAT Credits:	15	SCQF Level 11	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
<p>The era of big data is upon us - the volume, velocity and variety of enterprise and scientific data are growing at an exponential rate and will continue to do so for the foreseeable future. This module presents the programming paradigms, algorithmic techniques and design principles for large-scale distributed systems, such as those utilised by companies such as Google, Amazon and Facebook. This module is different in scope from CS4103 (distributed systems) as it focuses primarily on building and utilising large-scale clusters. The module will cover: distributed systems architecture, replication and fault tolerance, storage, coordination, scheduling algorithms, cluster computing, cloud computing, virtualisation, programming models (e.g., MapReduce), stream processing, decentralised systems (e.g., Chord), incentive-based systems (e.g., BitTorrent), and social computing (e.g., crowd sourcing techniques). This module will draw from the latest research in both academia and industry.</p>			
Pre-requisite(s):	Undergraduate students must have passed CS2002 and (cs2001 or cs2101). Postgraduate students must pass CS5001 before taking this module.		
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 tutorial (x 5 weeks)		
	Scheduled learning: 31 hours	Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination - 60%, Coursework = 40%		
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%		
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)		

CS5055 Data Ethics and Privacy			
SCOTCAT Credits:	15	SCQF Level 11	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged		
<p>There is much interest in both academic research and the mass media about the potential effects of algorithmic decision-making and bias, with stories about manipulation of news feeds affecting elections, discriminatory adverts or search engine results, companies using big data to subvert regulators, and so forth. The aims of this module are to introduce students to the various ethical dilemmas that are arising in our data-driven society, with an emphasis on the ethics of using data science, data protection and privacy, and algorithmic governance.</p>			
Learning and teaching methods of delivery:	Weekly contact: Weekly seminars (x 11 weeks), practical classes (x 2 weeks)		
	Scheduled learning: 32 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	No Re-assessment available.		
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)		

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CS5199 Individual Masters Project			
SCOTCAT Credits:	60	SCQF Level 11	Semester Both
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	Full-time for one semester.		
This module allows students to undertake a major software engineering or research project, under the guidance of an individual supervisor. The project builds on experience gained in previous years, although the topic must differ significantly from any 4000-level project.			
Pre-requisite(s):	Before taking this module you should pass CS3099 and be enrolled on the msci honours computer science		
Learning and teaching methods of 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 teaching staff:	TBC Module coordinator(s): Honours Coordinator - Computer Science (hons-coord-cs@st-andrews.ac.uk)		

School of Divinity

Divinity (DI) modules

DI3601 Biblical Hermeneutics and Exegesis			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
This module serves to prepare honours students for 4000-level modules in the general area of biblical studies. The content may vary from year to year, but will always include training in biblical interpretation and the exegetical study of specific texts from the Old Testament and the New Testament through lectures, seminars, student participation, and the writing of a substantial paper on a biblical passage.			
Pre-requisite(s):	Before taking this module you must pass DI2001 or pass DI2003		
Anti-requisite(s)	You cannot take this module if you take DI3711 or take DI3712		
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x10 weeks), 1 seminar (x10 weeks)		
	Scheduled learning: 0 hours	Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	New Coursework = 100%		
Module coordinator:	Dr E E Shively		
Module teaching staff:	Dr E Shively		

DI3703 Reading in Reformation and Early Modern Theology			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	Lecture 11.00 am - 12.00 noon Tue, Seminar 11.00 am - 1.00 pm Thu (Classes held in Weeks 1-5 essay submitted in week 6) - Time to be confirmed		
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.			
Pre-requisite(s):	Before taking this module you must pass DI2000		
Co-requisite(s):	You must also take DI3704		
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar (x 5 weeks).		
	Scheduled learning: 15 hours	Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Prof M W Elliott		

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DI3704 Reading in Theological Ethics			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	Lecture 11.00 am - 12.00 noon Tue, Seminar 11.00 am - 1.00 pm Thu (Classes held in Weeks 7 - 11 essay submitted in week 12) - Time to be confirmed		
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.			
Pre-requisite(s):	Before taking this module you must pass DI2000		
Co-requisite(s):	You must also take DI3703		
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar (x 5 weeks).		
	Scheduled learning: 15 hours	Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr J M Perry		
Module teaching staff:	Dr J Perry		

DI3716 Reading in the Greek New Testament			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	9.00 am - 11.00 am Mon and Thu - Time to be confirmed		
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.			
Pre-requisite(s):	Undergraduate - before taking this module you must pass DI2201		
Anti-requisite(s)	You cannot take this module if you take DI4632		
Learning and teaching methods of delivery:	Weekly contact: 3-hour seminar.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr E E Shively		
Module teaching staff:	Dr E Shively		

DI4015 Communication in Divinity

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module is part of the 'Communication and Teaching in Arts and Humanities' in which students gain substantial experience of a working environment. This component offers the opportunity to further develop an area of interest in communicating themes of Divinity to contemporary contexts. It is available only to participants in the placement module.				
Co-requisite(s):	You must also take ID4002			
Learning and teaching methods of 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 teaching staff:	To be confirmed			

DI4498 Honours Dissertation in Divinity

SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Wed			
This project enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length in dissertation form. The length of the dissertation should be 10,000 words, including text, footnotes and appendices. It must be submitted by the end of the semester. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Anti-requisite(s)	You cannot take this module if you take DI4501 or take DI4499 or take DI4497			
Learning and teaching methods of 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.			

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DI4524 Scottish Spirituality			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
This module will explore the key texts and movements of Scottish Christian spirituality from early mediaeval times through to the twentieth century. It will consider the impact of monasticism and pilgrimages, Calvinist reformation and Presbyterianism, the Romantic movement and Enlightenment and Celtic revivalism as well as considering what the indigenous, distinctly Scottish character of spirituality through industrial and post-industrial times might be.			
Pre-requisite(s):	Before taking this module you must pass DI2006		
Learning and teaching methods of 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 teaching staff:	Professor M Elliott		

DI4526 Christian Mysticism Through the Ages			
SCOTCAT Credits:	30	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
This module will introduce students to the extensive and rich literature on Christian mysticism from the early Church through the twentieth century. Various approaches to studying the phenomenon of mysticism will be considered. The focus of the module will be a close examination of the writings of Christian mystics themselves, with attention given to their varied descriptions and analyses of encounter and union with the divine, and the implications of mystical experience for personal transformation and growth in Christ. Texts and writers will include, among others, Thomas Merton, Teresa of Avila, John of the Cross, Meister Eckhart, The Cloud of Unknowing, and Julian of Norwich.			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar, 2 additional hours over semester meeting with coordinator.		
	Scheduled learning: 35 hours	Guided independent study: 265 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr W P Hyland		
Module teaching staff:	Dr W Hyland		

DI4550 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to Baylor University students.			
Planned timetable:	To be arranged.			
This Module is specifically for visiting students and staff from Baylor University. It is not available for St Andrews students.				
Pre-requisite(s):	Student must be on the baylor university exchange programme			
Learning and teaching methods of 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 teaching staff:	Baylor Programme Director			

DI4551 Baylor University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to Baylor University students.			
Planned timetable:	To be arranged.			
This Module is specifically for visiting students and staff from Baylor University. It is not available for St Andrews students.				
Pre-requisite(s):	Student must be on the baylor university exchange programme			
Learning and teaching methods of 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 teaching staff:	Baylor Programme Director			

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DI4552 Belmont University Module				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to Belmont University students.			
Planned timetable:	To be arranged			
This module is specifically for visiting students and staff from Belmont University. It is not available for St Andrews students.				
Pre-requisite(s):	Student must be on the belmont university exchange programme			
Learning and teaching methods of delivery:	Weekly contact: 2 to 3 contact hours per week.			
	Scheduled learning: 33 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: Coursework = 100%			
Re-assessment pattern:	No re-assessment available.			
Module teaching staff:	TBC Module coordinator(s): Belmont academic			

DI4604 Johannine Literature and Theology : English Text				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
This module will focus on a study of the Gospel of John and the Johannine Letters. Selected texts (in English) will be studied in detail with a view towards developing a more comprehensive understanding of the distinctive character of the Johannine writings, the context(s) that might have encouraged such a presentation, and the main theological themes reflected in the writings. Issues to be considered will typically include: (i) the multifaceted depiction of the Jews in the Gospel of John; (ii) the relationship between various groups of Christians portrayed in the Johannine writings; (iii) the importance attached to christology in the Gospel of John and the letters; and (iv) the distinctive characteristics of Johannine ideas about salvation, eschatology, sacraments, ethics and the nature of the Spirit/Paraclete. The correspondence in theological concepts between the Gospel and the Letters will also be explored.				
Anti-requisite(s)	You cannot take this module if you take DI4605			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lectures (x 11 weeks), 1 x 1-hour seminar (x 11 weeks)			
	Scheduled learning: 36 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T J Lang			
Module teaching staff:	Dr T Lang			

DI4605 Johannine Literature and Theology: Greek Text			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged		
<p>This module will focus on a study of the Gospel of John and the Johannine Letters. Selected texts (in Greek) will be studied in detail with a view towards developing a more comprehensive understanding of the distinctive character of the Johannine writings, the context(s) that might have encouraged such a presentation, and the main theological themes reflected in the writings. Issues to be considered will typically include: (i) the multifaceted depiction of the Jews in the Gospel of John; (ii) the relationship between various groups of Christians portrayed in the Johannine writings; (iii) the importance attached to christology in the Gospel of John and the letters; and (iv) the distinctive characteristics of Johannine ideas about salvation, eschatology, sacraments, ethics and the nature of the Spirit/Paraclete. The correspondence in theological concepts between the Gospel and the Letters will also be explored.</p>			
Pre-requisite(s):	Before taking this module you must pass DI2201 (new testament greek) or equivalent (two semesters greek).		
Anti-requisite(s)	You cannot take this module if you take DI4604		
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lectures (x 11 weeks), 1 x 1-hour seminar (x 11 weeks)		
	Scheduled learning: 36 hours	Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Re-assessment pattern:	3-hour Written Examination 100%		
Module coordinator:	Dr T J Lang		
Module teaching staff:	Dr T Lang		

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DI4628 Epistle to the Hebrews: English Text			
SCOTCAT Credits:	30	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
<p>The purpose of this module is to read the Epistle to the Hebrews carefully and discerningly and discuss the fruits of our close readings. As a means to that end, we will examine critical issues in interpretation and survey selected scholarly literature. Throughout the module, we will reflect upon matters of historical, hermeneutical and theological concern as these arise from our reading of the text, including issues such as: Hebrews' appeal to the OT, relationship to the rest of the NT, Christology, supersessionism, engagement Greco-Roman culture and philosophy, eschatological reflection, and the possible ethical and theological implications of the text.</p>			
Pre-requisite(s):	Before taking this module you must pass DI3601		
Learning and teaching methods of delivery:	Weekly contact: 1 lecture and 1 x 2-hour seminar.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr D M Moffitt		
Module teaching staff:	Dr D Moffitt		

DI4700 Hebrew Prose and Poetry			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
<p>This module aims to extend students' skills in reading the Hebrew Bible and in the techniques of textual criticism and of exegesis. It consists of the reading and studying of a selection of Hebrew biblical texts representative of different literary genres such as prose writing, prophetic literature, psalms and wisdom literature.</p>			
Pre-requisite(s):	Before taking this module you must pass DI2002		
Learning and teaching methods of 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 teaching staff:	Prof J Davila		

DI4726 Hebrew Readings			
SCOTCAT Credits:	30	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
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.			
Pre-requisite(s):	Before taking this module you must pass DI1004 and pass DI2002		
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr W A Tooman		
Module teaching staff:	Dr W Tooman		

DI4731 Ancient Jewish Literature from 1 Enoch to the Mishnah			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
This module will focus on the study of ancient Jewish literature, such as the collection of texts known as 1 Enoch; the Dead Sea Scrolls and other scrolls recovered from the Judaean Desert; ancient noncanonical scriptures (Old Testament pseudepigrapha); the works of Philo of Alexandria; the works of Flavius Josephus; and early Rabbinic traditions. The module will examine selected issues, such as the approaches of the texts to the exegesis of the Hebrew Bible, the problems associated with the preservation and transmission of Jewish pseudepigrapha by Christians, and the relevance of ancient Jewish literature for our understanding of the New Testament.			
Pre-requisite(s):	Before taking this module you must pass DI2001		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, 1 x 1-hour lecture		
	Scheduled learning: 36 hours	Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Prof J R Davila		
Module teaching staff:	Prof J Davila		

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DI4733 Creation and Chaos in the Hebrew Bible and the Ancient Near East				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module explores the dual themes of Creation and Chaos in the Old Testament/Hebrew Bible and related literature from the ancient Near East, and how, as root cosmological ideas, each informs the theological, political and literary worlds of the Near East. Our primary focus will be the Hebrew Bible/Old Testament, but we will also look at the representation of Creation and Chaos in the literary giants from Mesopotamia (e.g. The Epic of Gilgamesh, the Enuma Elish), Egypt (e.g. The Hymn to Aten, The Memphite Theology), and the Levant (e.g. the Baal Cycle).				
Pre-requisite(s):	Before taking this module you must pass DI2001			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x 10 weeks), 1 seminar (x 10 weeks) and one-to-one supervision			
	Scheduled learning: 36 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Nevader			

DI4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue . No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The dissertation must consist of approximately 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/)				
Pre-requisite(s):	The student requires a letter of agreement			
Anti-requisite(s)	Cannot take more than 30 credits in other dissertation/project modules.			
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			

DI4800 Theology and Pastoral Care				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module is designed to introduce students to the subject of pastoral care and counselling from theological and spiritual perspectives. It considers the historical development of pastoral and spiritual care in the Christian tradition, whilst giving most attention to contemporary models of pastoral care. Students will explore life-long pastoral care, disability, care in the context of sexuality, mental illness, health, death and grief.				
Pre-requisite(s):	Before taking this module you must pass DI2000			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Stoddart			
Module teaching staff:	Dr E Stoddart, Dr K Bosse			

DI4826 Themes in Postcolonial Theology				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 2.00 pm Wed			
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 Orientalism (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.				
Learning and teaching methods of 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 teaching staff:	Prof M Aguilar			

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DI4827 Christian Ethics and Contemporary Society			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
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>			
Learning and teaching methods of 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 coordinator:	Dr J M Perry		
Module teaching staff:	Dr J Perry		

DI4936 Theology and Literature			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	2.00 pm - 5.00 pm Thu		
<p>This interdisciplinary module is concerned with the diverse ways in which literature may serve as a text 'of' and 'for' theology. It will introduce students to a variety of theoretical approaches and then will focus on a range of key theological issues, which will be discussed in relation to a selection of 'great texts' from different genres and periods of literature, such as The Divine Comedy, Paradise Lost, Lyrical Ballads, In Memoriam, and Four Quartets.</p>			
Learning and teaching methods of 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 teaching staff:	Dr G Hopps		

DI4940 Analytic Theology			
SCOTCAT Credits:	30	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged		
<p>This module provides an overview of one of the most important recent developments in theology, namely, analytic theology. The latter borrows ideas, concepts, and ways of proceeding in theological discussion from analytic philosophy and capitalises on the field-changing developments that have taken place in Christian analytic philosophy over the last four decades. The specific topics it will consider will normally include a) God's relationship to time in the Christian interpretation of creation and incarnation; b) the nature of the human person engaging with dualist and materialist accounts; c) the significance of the doctrine of atonement for understanding the nature and conditions of forgiveness.</p>			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar and 1 x 1-hour lecture		
	Scheduled learning: 33 hours	Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Prof A J Torrance		
Module teaching staff:	Prof A J Torrance and Dr A B Torrance		

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ID4002 Communication and Teaching in Arts and Humanities			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Schools of Classics, Divinity, English, Geography & Geosciences, History, International Relations, Modern Languages or Departments of Philosophy.		
Planned timetable:	To be arranged.		
This module provides final year students within the Faculties of Arts and Divinity with the opportunity to gain first hand experience of education through a mentoring scheme with teachers in local schools. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and to gain a broad understanding of many of the key aspects of teaching in schools.			
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 of 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 teaching staff:	To be confirmed		

School of Earth & Environmental Sciences

Environmental Geography (EG) modules

EG3020 Global Climate Change				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 10.00 am Wed and Thu, 2.00 pm - 5.00 pm Tue			
Climate change is one of the most challenging environmental problems currently facing society. Recent global warming likely lies outside the range of natural variability when compared to the last 1000 or even 2000 years. However, over geological time-scales, global temperatures have been significantly warmer than today. 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. Particular emphasis is also placed on the dynamical processes and varying factors that drive short and long-term climate along with related feedbacks within the system..				
Pre-requisite(s):	Before taking this module you must pass ES2002 or pass ES2003 or (pass GG2011 and pass GG2012)			
Anti-requisite(s)	You cannot take this module if you take GG3268 or take GG3265			
Learning and teaching methods of 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 less than 4			
Module coordinator:	Dr R J S Wilson			
Module teaching staff:	Dr R Wilson, Dr J Rae, Dr A Burke			

EG3031 Special Topic for Physical Geography				
SCOTCAT Credits:	5	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to Geography students			
Planned timetable:	To be arranged.			
This module provides support and guidance for geography students taking EG3020 as a 5 credit top-ip. 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.				
Pre-requisite(s):	Before taking this module you must pass GG2011 and pass GG2012			
Co-requisite(s):	Undergraduate geography students must also take EG3020 with this module.			
Learning and teaching methods of delivery:	Weekly contact: Occasional tutorials.			
	Scheduled learning: 8 hours		Guided independent study: 42 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R J S Wilson			
Module teaching staff:	Dr R Wilson, Dr J Rae, Dr A Burke			

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Earth & Environmental Sciences (ES) modules

ES3001 Geological Mapping			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	To be arranged.		
This module provides training in independently interpreting geological maps and constructing cross sections. It develops the student's abilities to recognise geological features in three dimensions and, by incorporating Earth history concepts, how to develop thinking for analysing the four-dimensional problems that are commonplace to geological activities..			
Pre-requisite(s):	Before taking this module you must pass ES2001 and pass ES2002		
Learning and teaching methods of delivery:	Weekly contact: 4 maps and cross-section practicals (3 hours each) and lectures over 10 weeks and occasional 2-hour fieldwork tutorials.		
	Scheduled learning: 19 hours	Guided independent study: 131 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Prof A R Prave		
Module teaching staff:	Prof T Prave		

ES3002 Analytical and Statistical Methods in Earth Sciences			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	11.00 am - 1.00 pm Mon (analytical methods), 2.00 pm - 4.00 pm Thu (stats)		
This module covers the principles behind, and practical application of, analytical science and data handling in Earth Sciences. Four key analytical methods are presented and students operate instruments under technical supervision. Statistical training includes (i) understanding data types, (ii) data presentation and basic descriptive statistics, (iii) probability, (iv) hypothesis testing using parametric statistics, (v) correlation and regression, (vi) introduction to numerical methods. Students will be introduced to analytical methods available within the school. Skills taught here reinforce Earth Sciences honours teaching, particularly the independent research project module.			
Pre-requisite(s):	Before taking this module you must pass ES2001 and (pass ES2002 or pass ES2003)		
Learning and teaching methods of delivery:	Weekly contact: Lectures, practicals, tutorials and lab time averaging 5 hours per week.		
	Scheduled learning: 55 hours	Guided independent study: 95 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Oral Examination = 100%		
Module coordinator:	Dr R J S Wilson		
Module teaching staff:	Dr R Wilson, Dr M Claire, Dr Nicky Allison, Dr. Andrea Burke, Dr Eva Stueeken, Prof A Finch		

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ES3003 GIS and Spatial Analysis for Earth Scientists				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	10.00 am - 1.00 pm Mon, Wed (lecture plus lab session) (Weeks 1 - 7)			
This module covers the principles behind, and practical application of digital 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.				
Pre-requisite(s):	Before taking this module you must take ES3002			
Learning and teaching methods of delivery:	Weekly contact: 6 lectures and 14 practicals and support sessions (Weeks 1 - 7).			
	Scheduled learning: 48 hours		Guided independent study: 102 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C R Bates			
Module teaching staff:	Dr C Bates			

ES3004 Processes and Products in Sedimentary Systems				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 10.00 am Tue - Thu (lectures), 2.00 - 5.00 pm Mon (practicals). 3 field days (9.00 am - 5.00 pm)			
This core module provides fundamental knowledge and training in describing, studying and interpreting sediments, sedimentary rocks and stratigraphic frameworks. The concepts and methodologies of process sedimentology, stratigraphy and sedimentary petrography will be taught, and training undertaken using fieldwork and practicals. The module serves as preparation for subsequent modules on related topics and for field-based modules, including Advanced Geological Mapping, the Research dissertation, and the fourth-year field course.				
Pre-requisite(s):	Before taking this module you must pass ES2001 and (pass ES2002 or pass ES2003)			
Learning and teaching methods of 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 less than 4			
Module coordinator:	Prof A R Prave			
Module teaching staff:	Prof T Prave, Dr C Rose			

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ES3006 Advanced Geological Mapping				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not available to General Degree students.			
Planned timetable:	9.00 am - 5.00 pm Fri (map practicals)			
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 is 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 have learned how to record, interpret and present field data as well as visualise geology in four dimensions.				
Pre-requisite(s):	Before taking this module you must pass ES3001			
Learning and teaching methods of delivery:	Weekly contact: 3 practical sessions and two week-long residential field excursions.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof A R Prave			
Module teaching staff:	Earth and Environmental Sciences staff			

ES3007 Structural Geology and Tectonics				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	10.00 am - 12.00 noon Thu (lectures), 2.00 - 5.00 pm (practicals)			
This module covers the principles of rock deformation and 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. You will learn how to quantitatively evaluate strain distribution, stress fields and the failure envelope, how to evaluate structures arising from polyphase deformation and how to use these skills for geotechnical engineering applications. The course includes two compulsory field trips.				
Pre-requisite(s):	Before taking this module you must pass ES2001 and pass ES2002			
Learning and teaching methods of 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 less than 4			
Module coordinator:	Dr W McCarthy			

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ES3008 Geochemistry				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am Tue and Thu (lectures), 2.00 - 5.00 Fri (practicals)			
	<p>This module provides an introduction to geochemistry: the study of the abundance, distribution and circulation of the chemical elements in minerals, rocks, soils, water and the atmosphere. Geochemical tools are a powerful means to the study of geological, economic, and environmental problems. In the module we study the origin and distribution of the chemical elements in the Earth and solar system and review thermodynamics and kinetics as applied to Earth systems. We apply thermodynamics to make quantitative predictions regarding the outcome of chemical reactions associated with geological processes. We consider the behaviour of elements, mainly in low temperature environments. Material covered includes aqueous geochemistry and mineral precipitation and dissolution. We utilise geochemical tools to constrain changes in earth processes and climate, and to predict the impact of future change.</p>			
Pre-requisite(s):	Before taking this module you must take at least 1 and no more than 2 modules from {ES2001, ES2003}			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1 hour lectures (8 weeks), 1 x 3 hour practical (8 weeks), 1 field class			
	Scheduled learning: 45 hours		Guided independent study: 105 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 less than 4			
Module coordinator:	Dr N Allison			
Module teaching staff:	Dr N Allison, Prof A Finch, Dr J Rae, Dr P Savage			

ES3009 Igneous and Metamorphic Petrology				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am Tue and Thu (lectures); 2.00 pm - 5.00 pm Mon (practicals)			
	<p>This is a core module within the BSc Geology and MGeol Earth Sciences degrees and delivered early in the Honours programme in order to provide a fundamental framework for interpreting major petrological processes acting within the silicate portion of planet Earth. The course focuses on solid-state equilibria, liquid-solid phase equilibria, crystallography, and spatial associations. The module serves as preparation for subsequent modules on related topics and for field-based modules, including Advanced Geological Mapping, the Research dissertation, the Alps field course, Advanced Petrogenesis.</p>			
Pre-requisite(s):	Before taking this module you must pass ES2002			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lectures (x 10 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 less than 4			
Module coordinator:	Dr S Mikhail			
Module teaching staff:	Dr S Mikhail, Prof A Finch, Prof R White			

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ES3010 Advanced Environmental Field Methods				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 5.00 pm Fri (Weeks 1 - 4)			
This forms the introduction to methodologies and training in applied environmental problems. This module starts with sessions on geophysics techniques and field-based skills training sessions. Specific environmental problems will be identified, and researched in detail before a one-week field excursion where an environmental impact problem will be addressed in the field.				
Pre-requisite(s):	Before taking this module you must pass ES3001			
Learning and teaching methods of delivery:	Weekly contact: 3 field-based skills training sessions, Week 10 seminars and labs, one 1-week field excursion.			
	Scheduled learning: 53 hours		Guided independent study: 97 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr M Claire			
Module teaching staff:	Dr. M Claire, Dr. Aubrey Zerkle, Dr. Eva Stuëken			

ES3011 Global Biogeochemical Cycles				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
Environmental Earth Science is inherently multi-disciplinary, but many environmental science courses focus on specific reservoirs of the Earth system (e.g., the atmosphere, oceans, or continental crust), rather than examining the system as a whole. The study of global biogeochemical cycling crosses these disciplinary boundaries, following specific elements as they are cycled through the Earth surface by physical, chemical, and biological transformations. This module will focus on the cycling of the five elements critical to life on Earth - carbon, oxygen, sulfur, phosphorus, and nitrogen - using examples from both modern and ancient environments and their response to human influence. An emphasis will be placed on the understanding proxies utilised for unravelling these processes in the environment and in the rock record, along with modern quantitative methods used to constrain these cycles.				
Pre-requisite(s):	Before taking this module you must (take ES2002 or take ES2003) and take ES3008			
Learning and teaching methods of delivery:	Weekly contact: 2-hour lectures (x 6 weeks and only 1 hour in week 7) and 3-hour practical sessions (x 7 weeks).			
	Scheduled learning: 34 hours		Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is less than 4			
Module coordinator:	Dr A L Zerkle			
Module teaching staff:	Dr A Zerkle, Dr M Claire, Dr S Mikhail			

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ES3012 Advanced Geological and Environmental Field Methods

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module combines geophysical, geological and environmental field training. It starts with lectures and practical sessions on geophysics field techniques and field-based skills training sessions, as well as advanced map interpretation sessions for classic geological regions in Scotland. The second part of the module involves a one-week residential field geology excursion to the famous Assynt region of the NW Highlands. The final part of the course is a second 4-day to 1 week field excursion to Rio Tinto in southern Spain, a world-famous environmental mining disaster.				
Pre-requisite(s):	If not already passed you must take ES3001			
Anti-requisite(s)	You cannot take this module if you take ES3006 or take ES3010			
Co-requisite(s):	If not already passed you must take ES3001			
Learning and teaching methods of delivery:	Weekly contact: Lectures and practical sessions followed by two residential field classes.			
	Scheduled learning: 88 hours		Guided independent study: 62 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (geophysics report = 33.3%; geological notebooks and maps = 33.3% and environmental report = 33.3%)			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-assessment if Coursework mark is less than 4			
Module coordinator:	Dr M Claire			
Module teaching staff:	Dr R Bates, Dr M Claire, Prof T Prave, Dr A Zerkle			

ES3099 Field Methods in Geosciences

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to visiting students.			
Planned timetable:	none - field-based module.			
This module is designed exclusively for non-graduating overseas undergraduate students seeking advanced training in geological field methods. It consists of hands-on experience honing observational and mapping skills by participating in focused residential and one-day excursions, associated laboratory classes and at least one week-long residential course. The module takes full advantage of the University's location close to classic geological locations such as the NW Highlands region including the Moine thrust system, the Buchan and Barrovian metamorphic zones in the Dalradian terrane, and the Carboniferous sequences of NE England and Fife. The residential excursion normally includes the Sierra Norte region of central Spain, but location may vary.				
Pre-requisite(s):	Must be studying earth science at an overseas university			
Learning and teaching methods of delivery:	Weekly contact: Occasional lectures, tutorials and practicals in addition to fieldwork - this is predominantly a residential field-based module.			
	Scheduled learning: 192 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr W McCarthy			
Module teaching staff:	Earth and Environmental Sciences staff			

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ES4001 Field Excursion and Map Interpretation				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12 days fieldwork in August - September. 9.00 am - 5.00 pm Fri (practicals)			
This module develops the field observation and interpretation skills of collecting, recording, interpreting and synthesising data in the field and from geological maps and cross-sections. The field course will be thematic, examining and synthesising all aspects of a region to interpret a complex geological history and geodynamical evolution of an orogenic belt. Theme and location may vary.				
Pre-requisite(s):	Before taking this module you must take ES3006			
Learning and teaching methods of delivery:	Weekly contact: 2-week field course and 4 lab sessions.			
	Scheduled learning: 96 hours		Guided independent study: 64 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof A R Prave			
Module teaching staff:	Earth and Environmental Sciences staff			

ES4002 Research Review, Essay and Seminar				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	BSc students may only take this module in Semester 1, MGeol students can take this module in either semester. Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	Not applicable.			
The student proposes a geoscience or environmental science topic that has not been directly covered in a taken module. They discuss the suitability of the topic with a staff member who agrees to become adviser to the student. Student and adviser are required to meet 2 further times during the module. Research of the peer-reviewed literature is conducted and the student writes a critical review of ca. 3,500 words, developing their own ideas and critically evaluating data. 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 multiple staff.				
Pre-requisite(s):	Admission to an honours earth sciences programme or environmental earth science			
Learning and teaching methods of delivery:	Weekly contact: Occasional lecture and ca. 3 meetings with adviser spread across the semester.			
	Scheduled learning: 10 hours		Guided independent study: 140 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Practical Examination = 15%, Coursework = 85%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr C R Cousins			
Module teaching staff:	Earth and Environmental Sciences staff			

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ES4003 Research Dissertation				
SCOTCAT Credits:	45	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to Single Honours BSc Earth Science students			
Planned timetable:	Not applicable.			
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/)				
Pre-requisite(s):	Admission to an honours earth sciences programme or environmental earth science			
Learning and teaching methods of delivery:	Weekly contact: Regular meetings with supervisor arranged as required.			
	Scheduled learning: 20 hours		Guided independent study: 430 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Proposal = 5%, Oral presentation = 10%, Dissertation = 85%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr C R Cousins			
Module teaching staff:	Earth and Environmental Sciences staff			

ES4007 Petroleum Exploration and Geophysics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass ES2001 and (pass ES2002 or pass ES2003)			
Learning and teaching methods of delivery:	Weekly contact: 18 lectures and 4 workshops, 2 practicals and support sessions (Weeks 1 - 10).			
	Scheduled learning: 54 hours		Guided independent study: 99 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (Petrel Logging - 50%, Carbonate Workshop - 20%, Wireline Logging Workshop - 10%, North Sea Report - 20%) = 100%			
Re-assessment pattern:	Current Coursework (Petrel Logging) = 50%, Coursework = 50%, No Re-assessment if Coursework mark is less than 4			
Module coordinator:	Dr C R Bates			
Module teaching staff:	Dr R Bates			

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ES4008 Environmental Excursion				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	6 days fieldwork preceding Senior Honours. 9.00 am - 5.00 pm Fri (practicals)			
This module is designed to provide advanced field-based training in a variety of environmental and geochemical analytical techniques of utility to solving geo-environmental problems. The field course will be thematic and examine environmental aspects of a region using an integrated approach. Theme and location may vary. Additional post-trip analyses may include GIS and laboratory work.				
Pre-requisite(s):	Before taking this module you must pass ES3010			
Learning and teaching methods of delivery:	Weekly contact: 6 day field course with lab sessions.			
	Scheduled learning: 60 hours		Guided independent study: 90 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A Burke			
Module teaching staff:	Dr A Burke, Dr J Rae			

ES4010 Joint Honours Research Project				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Not applicable.			
An individual research project allows the student to pursue in depth a topic of personal interest. The student works largely independently and has the opportunity to demonstrate individuality, initiative and enterprise. Projects will normally include an aspect of field and analytical science. Skills of planning and executing research are learned, as well as the ability to work independently, and present the results orally and in dissertation form (up to 7,000 words). (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Pre-requisite(s):	Students must be enrolled on a joint honours geology and chemistry programme			
Learning and teaching methods of delivery:	Weekly contact: Regular meetings with supervisor arranged as required.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Proposal = 5%, Oral Presentation = 10%, Dissertation = 85%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr C R Cousins			
Module teaching staff:	Earth and Environmental Sciences staff			

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ES4011 Work Placement in Earth Sciences

SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Students must be enrolled on the mgeol earth sciences programme. Before taking this module you must pass ES2001 and pass ES2002			
Learning and teaching methods of 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 coordinator:	Prof A A Finch			
Module teaching staff:	Earth and Environmental Sciences staff			

ES4012 Research Placement in Earth Sciences

SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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 a PhD. The student reports on their activities during placement at the end of the placement period.</p>				
Pre-requisite(s):	Students must be enrolled on the mgeol earth sciences programme. Before taking this module you must pass ES2001 and pass ES2002			
Learning and teaching methods of 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 coordinator:	Prof A A Finch			
Module teaching staff:	Earth and Environmental Sciences staff			

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

ES4801 Geology Field Camp in Scotland				
SCOTCAT Credits:	24	SCQF Level 10	Semester	Summer Holiday after graduation
Academic year:	2018/9			
Availability restrictions:	Not available to students on St Andrews degree programmes.			
Planned timetable:	Full time for 5 weeks			
<p>This module aims to train students in advanced geological field skills and mapping, and focuses on providing a comprehensive training of best practice in geological fieldwork. Scotland is the ideal natural laboratory for this; it offers classic exposures of a variety of rock types relevant to key periods throughout three billion-years of Earth History. The taught content of the module includes lectures, staff-led fieldwork, group workshops, practical laboratories, and computer-based lab exercises. Independent fieldwork is a core part of the module. Module assessment is based on the quality of field notebooks, field and office maps, and group participation, as well as through a multiple choice test and a final independent digital map and project report. Feedback is provided every week and is therefore iterative, allowing students to learn from past assessments throughout the module. Extensive feedback is provided during fieldwork as field notebooks and maps are reviewed and discussed during evening surgeries.</p>				
Learning and teaching methods of delivery:	Weekly contact: 9.00 am - 11.00 am lectures, 10.00 am - 6.00 pm Fieldwork			
	Scheduled learning: 200 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 80%, Final Project = 20%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr W McCarthy			
Module teaching staff:	Earth & Environmental Sciences staff			

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ES5001 Expedition Field Course

SCOTCAT Credits:	15	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Fieldwork in Earth Sciences is key to graduate job prospects and is a platform for students to bring together the many aspects of Earth Sciences. The present module will involve the students not just in carrying out fieldwork, but also in the logistical and interpersonal sides of successful fieldwork design. Students will identify a field area for study in consultation with a member of the teaching staff, which includes several aspects of Earth sciences, such as igneous, sedimentary, economic and environmental geology. The students will form a team and divide the responsibilities for fieldwork and logistics. The assessment will include a memoir that will summarise the geological history of the area, similar to that published by a Geological Survey or the exploration industry. A (formatively assessed) presentation may be required if funding was provided by an external body. Some student groups may choose to use this module to carry out ambitious fieldwork in a remote setting.</p>				
Pre-requisite(s):	Entry to year 5 of mgeol earth sciences			
Learning and teaching methods of delivery:	Weekly contact: 5 hours of orientation/tutorials over 2 weeks			
	Scheduled learning: 10 hours		Guided independent study: 140 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Prof A A Finch			

ES5003 Research Dissertation

SCOTCAT Credits:	60	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>An individual research project on a topic in geological sciences which allows the student to pursue in depth a topic of personal interest. The student works largely independently of supervision and has the opportunity to demonstrate individuality, initiative and enterprise. Skills of planning and executing research are learnt, as well as the ability to work independently, and present the results orally and in dissertation form (up to 7,000 words). The project report will be as a publication-ready article in the manner of the journal Geology.</p>				
Pre-requisite(s):	Students must be in year 5 of the mgeol earth sciences programme			
Learning and teaching methods of delivery:	Weekly contact: Regular meetings with supervisor arranged as required.			
	Scheduled learning: 30 hours		Guided independent study: 570 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (Project proposal = 5%, Oral Presentation = 10%, Dissertation = 85%)			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr S Mikhail			
Module teaching staff:	Earth and Environmental Sciences staff			

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ES5005 Isotope Geochemistry: Theory, Techniques, and Applications				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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 use 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 disequilibrium.</p>				
Pre-requisite(s):	Current bsc students should pass ES3008 or pass (ch1401, CH1402 and ch2501)			
Learning and teaching methods of delivery:	Weekly contact: 2 x 2-hour lectures (x 5 weeks), 3-hour practical sessions (x 3 weeks)			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: 2-hour Practical (Open Book) Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Practical (Open Book) Examination = 80%, Coursework = 20%			
Module coordinator:	Dr A Burke			
Module teaching staff:	Dr A Burke, Dr P Savage, Dr A Zerkle			

ES5009 Geodynamics				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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 deep Earth geodynamics, surficial tectonics, erosion, climate, and biosphere. The module investigates how fundamental geodynamic processes impact the rock record and contrasts geodynamic evolution in the Archaean, Proterozoic, Palaeozoic, Mesozoic and Cenozoic using a number of case studies. The module develops skills of geodynamic interpretation, use of numerical models, palaeogeographic and metadata analysis. Students will undertake an independent research project culminating in a manuscript-style report for continuous assessment; and there will be a final exam focusing on continental tectonics.</p>				
Pre-requisite(s):	Undergraduate - before taking this module you must pass ES2002 or pass ES2003. Undergraduate - before taking this module you must pass ES2002 or pass ES2003			
Anti-requisite(s)	You cannot take this module if you take ES4009			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour or 1 x 2-hour lectures (x 11 weeks) , plus 2 extended laboratory classes..			
	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 less than 4			
Module coordinator:	Dr T D Raub			
Module teaching staff:	Dr T Raub, Dr R White			

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ES5010 Advanced Geochemistry

SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
The objective of this course is to provide students with skills in some of the more advanced topic in geochemistry that are not commonly discussed in introductory courses, including isotope geochronology, aqueous geochemical modeling, non-traditional stable isotopes and organic geochemistry. This selection of topics covers both theoretical and applied aspects in geochemical sciences with the aim of laying out potential avenues for future professional development.				
Pre-requisite(s):	Before taking this module you must take ES3008			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (x 10 weeks) 7 x 3-hour practical sessions and 1 x 2-hour session of group 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 less than 4			
Module coordinator:	Dr E E Stueeken			
Module teaching staff:	Prof D Mark			

ES5011 Water in the Environment

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module provides an introduction to hydrogeology (the distribution and movement of water through rocks and soils) and water quality and contamination. In the module we study the theory and concept of hydrology and groundwater flow, how to model fluid flows and how to predict solute and contaminant transport. We study key aqueous pollutants (e.g. metals, radionuclides, nutrients), their behaviour in different waters (speciation, mobility, bioavailability and toxicity) and methods of remediation.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass ES3008. Undergraduate students without the prerequisite but with a suitable chemistry background should be considered. Undergraduate - before taking this module you must pass ES3008			
Learning and teaching methods of delivery:	Weekly contact: Total of 20 hours of lectures, 9 hours of practicals, one field trip and interviews.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 15%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework (including Technical Brief, Media Interview and Qualitative analysis exercise) = 60%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr N Allison			
Module teaching staff:	Dr N Allison, Mr A Black (Groundwater Science Ltd)			

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ES5013 Advanced Petrogenesis				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Mon and Tue (lectures). 10.00 - 1.00 pm Wed or Fri (practicals)			
<p>Rocky planets, like Earth, comprise of a metallic core with a rocky mantle and crust topped with a gaseous atmosphere. The focus of this course is the genesis of the rocky mantle and crust ? termed the silicate Earth ? and it?s relationship to small-scale to planetary-wide processes. The silicate Earth primarily comprises igneous and metamorphic rocks. This module explores the nature of the magmatic and metamorphic processes that characterise the Earth from the immediate subsurface to the base of the mantle. We focus on the petrology and geochemistry of the minerals and rocks created, and the evolution of composition as a function of time and depth. Students completing this module will understand how magmatic systems operate from melting source, through ascent to the plumbing systems in the immediate subsurface. The response of the crust to dynamic changes in pressure and temperature will also be explained along with the methods used to determine these. The course will develop key skills in identifying rocks, interpreting geochemical data, and using geochemical and thermodynamic methods to unravel rock histories. Students will also be shown how these data can be used to understand any and all rocky bodies in the cosmos, from Earth to exoplanets.</p>				
Pre-requisite(s):	Before taking this module you must take ES3009			
Learning and teaching methods of delivery:	Weekly contact: 18 lectures, 15 hours of laboratory work, 18 hours of field-related study over the semester			
	Scheduled learning: 50 hours		Guided independent study: 100 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 50%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, 3-hour Practical Examination = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%, No Re-assessment if Coursework mark is less than 4			
Module coordinator:	Prof A A Finch			
Module teaching staff:	Prof A Finch, Prof R White and Dr S Mikhail			

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ES5050 Earth's Greatest Hits

SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	Lectures: 11.00 am - 12.00 noon Thu, Seminars: 10.00 am - 1.00 pm Wed			
<p>This module is based around current hot topics in Earth science research. It will introduce cutting-edge science questions about how our planet has evolved from a ball of molten rock to the habitable blue planet it is today, and some of the major changes in its chemistry, biosphere, and climate that have happened along the way. Topics will vary from year to year, depending on staff participating in the module and the advances in Earth science research. This module is research-led, requiring that you read, digest, and discuss a number of topical papers each week. For some of these topics there is no given answer; instead you gain an in-depth understanding of the current state of research. Topics are introduced in lectures and then discussion seminars, organised around student presentations, are designed to encourage debate and critique of the arguments presented in the research papers.</p>				
Pre-requisite(s):	Undergraduate students should pass ES2001 and (pass ES2002 or pass es2003)			
Learning and teaching methods of delivery:	Weekly contact: 8 hours of lectures and 24 hours of seminars over the semester.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: Coursework (10% participation in discussion groups; 60% oral presentations; 30% review paper) = 100%			
Re-assessment pattern:	2-hour Written Examination = 100% No ReAssessment if Coursework mark is less than 4			
Module coordinator:	Dr J W B Rae			
Module teaching staff:	Earth & Environmental Sciences academic and research staff			

ES5300 Magmatic-related Ore Deposits

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>The module focuses on the geodynamic setting, age, geometry, and mineralogy of the principal metallic mineral deposits related to magmatic processes. The different deposit types are studied using a holistic (geology, structural, geochemistry, and geophysics) mineral system approach. Current genetic models of ore deposits related to magmatic processes are reviewed with an emphasis on the geological processes required to create them. Finally, a roadmap to mineral exploration for each type of ore deposit is discussed. Deposit types discussed include magmatic Ni-Cu, magmatic PGE-Cr, porphyry, epithermal, skarn, Rare Earth Element (REE) and iron oxide copper gold (IOCG). Laboratory exercises involve geological problem solving using a mineral exploration industry focus involving the examination of geological maps and representative suites of samples (thin sections and hand samples) from different types of metallic mineral deposits.</p>				
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lectures (22 hours over 10 weeks), 3 x 1-hour seminars (x 2 weeks); 3-hour practical classes (x 4 weeks)			
	Scheduled learning: 31 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 15%, Coursework = 35%			
	As used by St Andrews: 2-hour Written Examination = 50%, Practical Examination = 15%, Coursework = 35%			
Re-assessment pattern:	2-hour Written Examination = 80%, Existing Coursework = 20%			
Module coordinator:	Dr J Cloutier			
Module teaching staff:	Dr J Cloutier and Prof A Finch			

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ES5301 Mineral Exploration				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
The purpose of this module is to learn basic concepts of mineral exploration that are used by the mineral exploration industry. The module is divided into three sections each focusing on different aspect of mineral exploration. Section 1 focuses on geochemical methods, section 2 on hyperspectral methods, and section 3 on geophysical methods. Each section discusses the theoretical background necessary to understand the different methods and introduces the different available analytical techniques, and highlights effective data acquisition. Finally, interpretation and application of datasets related to each method is conducted as practical exercises.				
Pre-requisite(s):	Student must have gained entrance to the mgeol or msc mineral resources			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 practical (x 2 weeks)			
	Scheduled learning: 31 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 15%, Coursework = 35%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Re-assessment pattern:	2-hour Written Examination = 80%, grade derived from Previous Coursework = 20%			
Module coordinator:	Dr J Cloutier			
Module teaching staff:	Dr J Cloutier, Dr R Bates			

ES5302 Hydrothermal Ore Deposits				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
The module focuses on the geodynamic setting, age, geometry, and mineralogy of the principal metallic mineral deposits related to hydrothermal processes. The different deposit types are studied using a holistic (geology, structural, geochemistry, and geophysics) mineral system approach. Current genetic models of ore deposits related to hydrothermal processes are reviewed with an emphasis on the geological processes required to create them. Finally, a roadmap to mineral exploration for each type of ore deposit taught is discussed. Deposit type discussed in the module includes orogenic gold, VMS, SEDEX, Mississippi Valley-type, unconformity-related uranium deposits, and sedimentary-hosted stratiform copper deposits. Laboratory exercises involve geological problem solving using a mineral exploration industry focus involving the examination of geological maps and representative suites of samples (thin sections and hand samples) from different types of metallic mineral deposits.				
Pre-requisite(s):	Student must have gained entrance to the mgeol or msc mineral resources programmes			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks), 1 practical (x 3 weeks), 1 field trip			
	Scheduled learning: 31 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 15%, Coursework = 35%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 80%, Existing Coursework = 20%			
Module coordinator:	Dr J Cloutier			

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ES5303 Applied Geological Mapping

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
This module aims to train students in applied geological field skills. The module focuses on creating and interpreting surface and underground maps, and drill core logs. Module assessment is based on the quality of field notebooks, maps, logs, and group participation.				
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures (x 3 weeks), 12 hours of practicals (x 2 weeks) and 17.5 hours of fieldwork (x 4 weeks)			
	Scheduled learning: 100 hours		Guided independent study: 50 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr W McCarthy			
Module teaching staff:	Dr J Cloutier, Dr W McCarthy, Prof T Prave			

ES5304 3D Geological Modelling

SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students on the MGeol or Mineral Resources degrees			
Planned timetable:	To be arranged.			
This module aims to familiarise students with three-dimensional geological modelling using the industry-standard pieces of software. The module emphasises the creation, validation and interpretation of geological and structural models, as well as their use in mineral exploration and mineral resource estimation. Module assessment is based on the quality of three-dimensional models created and group participation.				
Learning and teaching methods of delivery:	Weekly contact: 3 hours of lectures (x 5 weeks), 3 hours of practical classes (x 5 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr J Cloutier			
Module teaching staff:	Dr J Cloutier, Dr R Bates			

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ID4442 Combined Research Project in Biology and Geology				
SCOTCAT Credits:	45	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Admission to bsc honours programme in biology and geology			
Learning and teaching methods of delivery:	Weekly contact: Individual supervision by member(s) of teaching staff			
	Scheduled learning: 20 hours		Guided independent study: 430 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Research proposal = 5%, Oral Presentation = 10%, Dissertation = 85%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr T D Raub			
Module teaching staff:	Dr T Raub			

School of Economics & Finance

Economics & Finance (EC) modules

EC3301 Econometrics				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 11.00 am Tue.			
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.				
Pre-requisite(s):	Permission of the economics honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 2-hour practical classes (x 4 weeks) 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 33 hours		Guided independent study: 167 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M R Polisson			
Module teaching staff:	Dr M Polisson			

EC3302 Decision and Game Theory				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 11.00 am Mon.			
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.				
Pre-requisite(s):	Permission of the economics honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Coursework (Bi Weekly Quizzes) = 25%, Examination (Class Test = 15%, 2-hour Written Examination = 60%) = 75%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof A Zapechelnjuk			

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EC3303 Economic Growth				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 11.00 am Wed.			
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.				
Pre-requisite(s):	Permission of the economics honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A W Trew			
Module teaching staff:	Dr Alex Trew			

EC3304 Mathematical Economics				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 11.00 am Thu.			
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.				
Pre-requisite(s):	Permission of the economics honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Test 25% each) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Zhang			

EC3305 Incentives, Contract and Markets

SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module will address economic institutions when agents interact under informational asymmetries. The main models of the theory of contracts, particularly the basic models of adverse selection, signalling, and moral hazard, as well as the theory of mechanism and market design, will be discussed with emphasis on their applications for understanding the internal organisation of firms, taxation, regulation, insurance and labour markets, education, and many other aspects of economics.				
Pre-requisite(s):	Permission of the economics honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Tests 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr L Bridet			
Module teaching staff:	Dr Luc Bridet			

EC3306 Economic Fluctuations

SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Permission of the economics honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr R L Stefanski			
Module teaching staff:	Dr R Stefanski			

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EC3307 Computational Economics				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	TBC			
Economics has an array of very useful and advanced computational tools that are not usually taught at the undergraduate level. To address this issue and to make students familiar, and even proficient, with these tools, this module will present a methods-based computational economics course. We will develop some basic but fundamental economic problems (both macro and micro) and teach students how to solve those problems using a programming language like Mathematica or Matlab. The ability to program is crucial in the modern world and this course will endow students with an invaluable tool as well as an important edge with respect to other economics programs. Students will be given an opportunity to program and to learn to apply their new skills to solving economic problems.				
Pre-requisite(s):	Before taking this module you must pass EC3304 or pass MT1002			
Learning and teaching methods of delivery:	Weekly contact:			
	Scheduled learning: 25 hours		Guided independent study: 180 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: Written Examination (In-class Test) = 25%, Coursework = 75%			
Re-assessment pattern:	Programming Project = 100%			
Module coordinator:	Dr R L Stefanski			
Module teaching staff:	Dr R Stefanski			

EC4401 Advanced Econometrics				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
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.				
Pre-requisite(s):	Before taking this module you must pass EC3301 or pass MT3508			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, , 2-hour practical classes (x 3 weeks), 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 31 hours		Guided independent study: 169 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Test 25% each) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof J R McCrorie			
Module teaching staff:	Prof R McCrorie			

EC4402 Economic History				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	2.00 pm - 4.00 pm Thu.			
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.				
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A W Trew			
Module teaching staff:	Dr A Trew			

EC4405 Economics of the Environment				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	2.00 pm - 4.00 pm Tue.			
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.				
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J Y Jin			
Module teaching staff:	Dr J Jin			

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EC4407 Behavioural Economics				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
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.				
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Tests 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr G Gerasimou			

EC4408 Industrial Organisation and Regulations				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
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.				
Learning and teaching methods of 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 (including Class test 25%) = 50%			
Re-assessment pattern:	2-Hour Written Examination = 100%			
Module teaching staff:	Dr M La Manna			

EC4409 International Macroeconomics

SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	11.00 am - 1.00 pm Fri.			
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.				
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr O Senay			

EC4410 International Trade

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

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EC4413 European Macroeconomics				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
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>				
Anti-requisite(s)	You cannot take this module if you take EC4513 or take EC4613			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 10 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M M Mitka			
Module teaching staff:	Dr G Mitka			

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

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EC4415 Public Economics				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
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 provision and financing of public and private goods and the design of tax systems.				
Learning and teaching methods of 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 coordinator:	Dr M Negri			
Module teaching staff:	Dr L Bridet and Dr M Negri			

EC4417 Financial Economics: Asset Pricing				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	2.00 pm - 4.00 pm Mon.			
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.				
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr I Psaradellis			

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EC4418 Financial Economics: Corporate Finance				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
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>				
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V Prasad			

EC4420 Inequality and Redistribution				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	Tuesday 11-1pm			
<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>				
Anti-requisite(s)	You cannot take this module if you take EC4520			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module teaching staff:	TBC			

EC4422 Communication and Public Engagement in Economics & Finance

SCOTCAT Credits:	5	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Students must be in their Senior Honours year of a degree programme in the School of Economics & Finance.			
Planned timetable:	To be arranged			
The aim of this module is to discuss critically the approaches used and challenges faced by professional economists as they attempt to communicate their analysis, insights, results and forecasts to the general public. This may focus on a case study of a specific topics or types of communicators (think tanks, research institutes, university academics, international organisations, banks, civil servants) or address the merits of a particular modes of communication and engagement mechanisms adopted by economists (interviews, newspaper articles, letters and editorials, popular level or academic books, blogs, videos, internet forums etc).				
Learning and teaching methods of delivery:	Weekly contact: 1-hour supervision (x2 weeks)			
	Scheduled learning: 2 hours		Guided independent study: 48 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr I Smith			

EC4424 The Economics of Migration

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

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EC4425 Econometrics of Impact Evaluation				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	To be arranged.			
Evaluating the causal effects of economic policies is an important but complex and challenging task. The purpose of this module is to introduce students to the core methods for evaluating the causal effect of economic policies and to apply these methods in practice. It will expose students to the concept of causality and explain under which assumptions the causal effect of economic policies can be identified. The module will have a strong focus on applications and will emphasise problems that economists encounter in practice when evaluating economic policies. Empirical examples will deal mainly with policies in labour economics and development economics. The laboratory sessions will discuss important empirical studies in the field and will provide students with the opportunity to apply empirical methods hands-on using Stata.				
Pre-requisite(s):	Before taking this module you must take EC3301 or take MT3508 or take EC5203			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour laboratories (x 5 weeks) plus 1 optional office hour (x 12 weeks)			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr T Barsbai			

EC4426 Practical Financial Modelling				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	To be arranged			
Financial modelling using Microsoft Excel is used in many fields such as investment banking, mergers and acquisitions (M&A), equity research, risk analysis, valuations, investment management, credit analysis, financial projections and project evaluations. This module is designed to equip students with skills to implement financial models using Excel. It will also introduce the use of VBA (Visual Basic for Applications, Microsoft's programming language) in financial modelling. This is an applied module with an emphasis on the practical application of finance theory through in-depth Excel based laboratories. Material will be made relevant to the international finance industry with real world examples and problems relevant to global financial markets. The goal of this module is to provide students with extensive knowledge of the quantitative models used by financial institutions around the world.				
Pre-requisite(s):	Before taking this module you must pass EC4430 and pass EC4417			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (X11 weeks), 2-hour practical classes, Excel labs (X 11 weeks)			
	Scheduled learning: 33 hours		Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: 100% Coursework			
Re-assessment pattern:	100% Coursework			
Module coordinator:	Dr P G Egan			
Module teaching staff:	Dr P Egan			

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EC4427 Philosophy of Economics				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	To be arranged.			
Philosophy of Economics is designed as an interdisciplinary module that will aim to study theoretical, methodological and ethical foundations of economics. It will challenge the students to think and question the reasoning and implications of widely used economic models and methodologies. It will appeal to students that want to complement their basic economic understanding with a normative approach to the same material.				
Anti-requisite(s)	You cannot take this module if you take PY4657			
Learning and teaching methods of delivery:	Weekly contact: Weekly lectures (2 hours) and fortnightly tutorial (1 hour)			
	Scheduled learning: 37 hours		Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 34%, Practical Examinations = 0%, Coursework = 66%			
	As used by St Andrews: Coursework = 66%, 2-hour Written Examination - 34%			
Re-assessment pattern:	2-hour Written Examination - 100%			
Module coordinator:	Dr T Cuhadaroglu			

EC4430 Portfolio Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			
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.				
Pre-requisite(s):	Before taking this module you must pass EC4417			
Anti-requisite(s)	You cannot take this module if you take EC4204			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M C Iannino			

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EC4432 Development and Finance				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	To be arranged			
<p>This module will provide you with understanding of specific aspects of development finance, recognising that finance-related issues are increasingly important in economic development. The module is designed to introduce you to advances in both the theoretical and the empirical understanding of financial issues mainly in developing countries. This will include an examination of the starting point as well as the path to financial integration with the international economy, and will address a selection of the major issues surrounding developing markets. In the context of economic development and emerging markets, we will mainly study topics of financial repression and liberalisation; financial development; fragility and crises; microfinance; financial aid and economic development; and religion and finance.</p>				
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures (x11 weeks), 1-hour tutorial (x 5 weeks) and 2 optional office hours dedicated to the module (x 12 weeks)			
	Scheduled learning: 27 hours		Guided independent study: 166 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework (including class test 20%) = 40%			
Re-assessment pattern:	2-hour written examination = 100%			
Module coordinator:	Dr V Saxena			

EC4498 Research Project in Economics				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to students in the final year of their degree programme with at least 60 credits in Honours Economics modules.			
Planned timetable:	1.00 pm - 2.00 pm Thu (Weeks 1 - 4 only)			
<p>This module is designed to develop students' independent research, writing and presentation skills in the application of economic analysis to a selected topic in economics. The project will require initiative, a critical discussion of existing research and development of an argument. The project may also include econometric study of a problem. The permitted length is between 6,000 - 8,000 words.</p>				
Pre-requisite(s):	Students must be in the final year of their honours programme and have already accumulated at least 60 credits in 3000 or 4000 level economics modules.			
Anti-requisite(s)	You cannot take this module if you take EC4499			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x 5 weeks), 1 supervision meeting (x 3 weeks)			
	Scheduled learning: 8 hours		Guided independent study: 192 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Research Project = 80%, Coursework = 20%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M P Knowles			
Module teaching staff:	M Knowles			

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EC4499 Dissertation in Economics

SCOTCAT Credits:	40	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of any Honours Economics Programmes.			
Planned timetable:	11.00 am - 12.00 noon Thu (Weeks 2, 4 and 8 only)			
	This module is designed to develop students' independent research, writing and presentation skills. The dissertation should present original research applying economic and/or econometric methods to a selected topic in economics. The topic should be chosen by students in consultation with their supervisor. Students require approval for their preliminary dissertation outline from both the supervisor and the Principal Module Teacher by the end of the first week of Semester 1. The maximum number of words allowed is 15,000 but students will be advised to cover the topic in around 12,000. The lecture part of the module will train students' research skills in framing a research hypothesis, conducting bibliographic research, writing a literature survey, structuring a research paper, and presenting research results.			
Pre-requisite(s):	Before taking this module you must pass EC3301			
Anti-requisite(s)	You cannot take this module if you take EC4498			
Learning and teaching methods of delivery:	Weekly contact: 5 lectures and 6 meetings with supervisor over the year.			
	Scheduled learning: 11 hours		Guided independent study: 389 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Dissertation = 80%, Coursework = 20%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M P Knowles			
Module teaching staff:	M Knowles			

EC5201 Macroeconomics

SCOTCAT Credits:	20	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	UG - Available only to students in the second year of the Honours programme with the permission of the Director of Teaching who have achieved at least 17.5 in EC3303 or EC3306.			
Planned timetable:	To be arranged.			
	The module will provide a thorough advanced treatment of the core models and concepts used in modern macroeconomics; for example the infinite horizon Ramsey model and finite horizon overlapping generations model and models that have been used to characterise short term fluctuations, such as the real business cycle approach and the New Keynesian approach. Among other things, the module will seek to explain the development of microbased macroeconomic theory, use models to predict the impact of policy changes on endogenous variables and critique modelling assumptions, especially in the context of policy analysis. Students are expected to have a strong undergraduate level training in macroeconomics, microeconomics and relevant mathematical and statistical techniques. Before commencement of the module, supplementary lectures will be given on the relevant mathematical methods.			
Pre-requisite(s):	Undegraduate students must be in the second year of an honours programme, have scored 17.5 or greater in EC3303 or EC3306 and have the permission of the director of teaching.			
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 10 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework (including class test 15%) = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Senay			

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EC5202 Microeconomics			
SCOTCAT Credits:	20	SCQF Level 11	Semester 1
Academic year:	2018/9		
Availability restrictions:	UG - Available only to students in the second year of the Honours programme with the permission of the Director of Teaching who have achieved at least 17.5 in EC3302 or EC3305.		
Planned timetable:	To be arranged.		
<p>This module will provide a thorough advanced treatment of the core models and concepts used in modern microeconomics. Microeconomic theory is concerned with the behaviour of individual economic actors (e.g. firms, consumers) and the aggregation of their actions in different institutional frameworks (e.g. markets), and models economic activity as an interaction of individual economic agents pursuing their private interests. Students will be presented with a set of concepts and mathematical techniques which will enable them to achieve a better understanding of economic activity and outcomes. This involves an understanding of how microeconomic models are built, focusing on their objective in terms of the phenomenon they are meant to explain, and the consequences of their assumptions in terms of the applicability of their predictions. Students are expected to have a strong undergraduate level training in macroeconomics, microeconomics and relevant mathematical and statistical techniques. Before commencement of the module, supplementary lectures will be given on the relevant mathematical methods.</p>			
Pre-requisite(s):	EC3303 or EC3306 and permission of the director of teaching		
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 10 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).		
	Scheduled learning: 30 hours	Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework (including class test 15%) = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr M K Ozbek		
Module teaching staff:	Dr K Ozbek		

EC5203 Econometric Methods and Applications			
SCOTCAT Credits:	20	SCQF Level 11	Semester 1
Academic year:	2018/9		
Availability restrictions:	UG - Available only to students in the second year of the Honours programme with the permission of the Director of Teaching who have achieved at least 17.5 in EC4401.		
Planned timetable:	To be arranged.		
<p>This module will provide an advanced level training in aspects of econometric methods that is suitable for the basis for further work in econometrics and for understanding/being able to extract econometric techniques in published articles. The course will also give students the basis to support an empirical section in their MSc dissertation. Students are expected to have intermediate- level knowledge of matrix algebra, calculus and statistics. Before commencement of the module, supplementary lectures will be given on the relevant mathematical and statistical methods.</p>			
Pre-requisite(s):	Undergraduates require EC4401 and the permission of the director of teaching		
Learning and teaching methods of delivery:	Weekly contact: 20 hours of lectures over 10 weeks, 1-hour tutorial (x 8 weeks), 2-hour computing labs (x 2 weeks) plus 1 office hour (x 12 weeks)		
	Scheduled learning: 32 hours	Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework (including class test 15%) = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr I Merkurieva		

School of English

English (EN) modules

EN3111 Beowulf				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am and 11.00 am Fri			
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)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Anti-requisite(s)	You cannot take this module if you take EN3010 or take ME3012			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Rauer			

EN3112 Chaucer's Canterbury Tales				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am - 1.00 pm Wed			
This module aims to develop appreciation of the Canterbury Tales, Chaucer's last work and today his most popular. This most sophisticated product of fourteenth-century English literature is a collection of stories related by many voices as part of a tale-telling competition during a pilgrimage to Canterbury. This module builds on the study of medieval and specifically Chaucerian literature in sub-honours, and contributes to the study of medieval literary culture offered by other modules in the School, such as EN4312 Authorising English: Society, Gender and Religion in Late Medieval English Literature. Some prior experience of reading Middle English (e.g. through EN2003) is useful, but not necessarily required. (Group A)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2 hours (either 1 x 2-hour seminar or 1 lecture and 1 seminar), and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr I R Johnson			
Module teaching staff:	Dr Ian Johnson (IRJ)			

English - Honours Level - 2018/9 - August - 2018

EN3113 Older Scots Literature to 1560				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am Tue and 11.00 am Thu			
	This module introduces students to the lively but little-known world of literature in Older Scots before the cultural watershed of the 1560 Reformation. Works to be studied include the Fables of Henryson (building on the 'Cock and Fox' fable studied on EN2003), poems by James I, Dunbar, Douglas and Lyndsay, and some of the comic or chivalric works of their anonymous contemporaries, all studied in the context of developments in the language, literary culture and political climate of the period. (Group A)			
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture, 1 seminar and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70% As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R Purdie			
Module teaching staff:	Dr Rhiannon Purdie (RP6)			

EN3141 Tragedy in the Age of Shakespeare				
SCOTCAT Credits:	30	SCQF Level 9	Semester	Both
Academic year:	2018/9			
Planned timetable:	S1 - 12.00 noon Tue and 12.00 noon Thu S2 - 12.00 noon Thu and 1.00 pm Thu			
	The aim of the module is to develop an understanding of different versions of tragedy in the English Renaissance. (Group B)			
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture and 1 tutorial and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50% As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N P P Rhodes			
Module teaching staff:	Prof Neil Rhodes (NPPR) and Dr Harriet Archer (S1); Dr Giulio Pertile (GJP4) (S2) Module coordinator(s): Prof Neil Rhodes (NPPR) (S1); Dr Giulio Pertile (GJP4) (S2)			

EN3142 Renaissance Literature: Texts and Contexts

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	12.00 noon Tue and 2.00 pm Thu			
	The course is historically based and deals with literature from the late Elizabethan period to the period of Civil War and interregnum in the mid-seventeenth century. Texts studied will include Spenser, The Faerie Queene Books One and Two; Marlowe, Hero and Leander; Shakespeare, Venus and Adonis, History plays (the second tetralogy) and The Tempest; Jonson, poetry and drama; Donne and Herbert, devotional poetry; Marvell, poetry; Milton, Comus. (Group B)			
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N P P Rhodes			
Module teaching staff:	Prof Neil Rhodes (NPPR)			

EN3163 The Younger Romantics: Poetry and Prose (1810 - 1830)

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am Thu and 11.00 am Fri			
	The module aims to introduce students to the second generation of Romantic writers, and to equip them with a good working knowledge of literary culture in Britain in the second and third decades of the nineteenth century. Students in this module will be expected to demonstrate, in class assignments and in examinations, that they have acquired: a detailed knowledge and critical appreciation of poetic and non-fictional prose texts of the second generation of English Romantic writers; an understanding of these texts within their political and cultural contexts; the ability to present an informed discussion of Romantic literature in the light of contextual evidence such as social, political and wider historical developments; knowledge of recent critical and theoretical approaches to these texts; skills in critical reading, arguments, and evaluation of primary texts and relevant secondary material; skills in library and on-line research; a range of relevant practical and presentational skills, both written and oral. (Oral skills will be tested via group discussion and individual presentations; written skills will be tested by means of essays, semester examinations and creative writing exercises in the manner of a writer we have studied.) (Group C)			
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2 hours: seminars, lectures or tutorials, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N H Roe			
Module teaching staff:	Prof Nicholas Roe (NHR)			

English - Honours Level - 2018/9 - August - 2018

EN3165 'Loose Baggy Monsters': The Rise and Fall of the Victorian Novel				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 11.00 am Wed			
	<p>In spite of what Henry James's famously disparaging characterisation of Victorian novels as 'loose baggy monsters' might suggest, the novel was, without a doubt, the dominant cultural form of the Victorian period. From the prudent and proper to the rude and risqu?, and from the 1830s to the fin de siècle, the Victorian novel was, in its own time, a capacious, malleable and contested form of cultural production, and one which continues to resist easy categorisation today. On this module we will explore the rich heterogeneity of the Victorian novel through close examination of works by a range of canonical and non-canonical authors. We will examine the changing shape of the novel throughout the nineteenth century (from the sprawling 'monstrosity' of the triple-decker to the compact neatness of the proto-modernist aesthetic of the 1890s), as well as the range of novelistic genres that proliferated at this time (including realism, sensation, the industrial novel, Victorian gothic, horror, adventure, and science fiction), and consider the ways in which the cultural, social and political values of Victorian Britain are both encoded and contested in the novels of the age.</p>			
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%</p> <p>As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%</p>			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Gill			
Module teaching staff:	TBC			

EN3202 Literature and Ecology				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am Thu and 11.00 am Fri			
	<p>The module will provide an introduction to the history of nature writing and ecocritical literature, from the transcendentalists to the present day. Students will gain an awareness of the growing importance of ecocritical writing as well as the tradition and impact of nature writing and regional writing on literature. Students will become familiar with the essentials of ecocritical thinking and of writing as ecology. In addition to gaining a basic appreciation of the Transcendentalist philosophy of nature, students will be introduced to a number of important trends or movements within ecocritical writing, including naturalist, regional, eco-feminist and indigenous traditions, as well as considering the implications of ecocritical writing for a wider field, including other critical approaches, economics, history and creative writing. Ecocriticism is a growth field in both literary and cultural criticism and ecocritical perspectives are perceived as more important as this field continues to advance. By adding ecocritical perspectives to their range of possible approaches, students will have new instruments which can be applied in a number of fields, including literary, cultural, political and philosophical analysis. (Group E)</p>			
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%</p> <p>As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%</p>			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J Burnside			
Module teaching staff:	Prof John Burnside (JB44)			

EN3212 Modernist Literature: Making It New?				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	3.00 pm - 5.00 pm Thu			
This module will survey a representative sample of modernist fiction and poetry, providing an opportunity for the in-depth study of key conceptual shifts and formal innovations in modernist literature. Thematically, it will take as its central focus the question of how the modernist desire to break with the past and 'make it new' existed alongside an on-going interest in tradition and the past. We will consider topics such as Imagism and classicism; modernist uses of myth; the modernist pastoral; modernism and memory; exile and imagined return; and the anticipatory nostalgia of the 1930s. Authors considered will include W B Yeats, Ezra Pound, H D [Hilda Doolittle], T S Eliot, Virginia Woolf, James Joyce, and W H Auden. (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 1-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C M Alt			
Module teaching staff:	Dr Christina Alt (CMA7)			

EN3213 Postcolonial Literature and Theory				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	1.00 pm Tue and 1.00 pm Thu			
A diverse and contested field, postcolonialism explores a world transformed by European exploration, exploitation and empire-building. This course examines literary representations of this world and will introduce students to a range of key texts, critical debates and theoretical concepts in postcolonial studies. Focusing, in particular (but not exclusively), on the legacies of the British empire, we will explore the work of writers from across Africa, the Caribbean, India and Britain in order to question the ways in which postcolonial literature and theory challenges our understanding of race, class, gender, language and the individual. How has the history of empire shaped the world in which we live? In what ways have writers responded to the pressures to both commemorate the colonial past and move beyond it? And, what role can literature play in the attempt to challenge the historical and political injustices of our postcolonial world? (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L M Burns			
Module teaching staff:	Dr Lorna Burns (LMB21)			

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EN3214 The Country and the City in Scottish Literature				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	12.00 noon - 2.00 pm Mon			
<p>What and where is Scotland? How have the cities and the countryside of Scotland been created over the last 200 years? And what are the internal and external borders of Scottish literature - psychologically, geographically and formally? By exploring Scottish novels - and poetry - from the early 19th century to the present day we examine the literary construction and deconstruction of Scotland through depictions of its rural and urban spaces. In particular, we analyse dystopian and utopian fantasies, green and gothic tendencies, and nostalgia both for the lost idyllic countryside and for gritty, urban 'reality', to ask if Scotland as a literary construction makes sense - and if it needs to. (Group E)</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P Mackay			

EN3215 Atomic Cultures: Anglophone Writing and the Global Cold War				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am Tue and 11.00 am Thu			
<p>This module introduces the literature and related culture of the Cold War Anglosphere, from reportage and protest lyrics to fictions of apocalypse, espionage, and paranoia. It explores literary works in the context of a wide variety of official and unofficial media forms, including government propaganda films, civil defence leaflets, protest songs, visual art (sculpture, collage), and film. Students will learn to understand Cold War writing as part of a global field of ideological and cultural conflict, and with this in mind will read works of prose and poetry by American, British, and Commonwealth authors. The course will emphasize transactions between seemingly disparate domains of culture not only geographically but generically and formally, exploring relations between literature and the other arts, but also seeking to understand how political pressures, social sciences, and media narratives can shape and be shaped by literary production. (Group E)</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture, 1 seminar plus 2 optional consultation hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J J Purdon			
Module teaching staff:	Dr James Purdon (JJP5)			

EN3216 Modern Experimental Poetry				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	3.00 pm - 5.00 pm Thu			
<p>The module examines some of the most innovative and provocative poets of the postwar period. The aims are to attain a sense of the most significant poetic movements of the postwar period; to examine the prevalence and value of transatlantic poetic exchange; to observe how large and complex aesthetic developments can be detected in the specifics of individual oeuvres and friendships; to relate the acts of poetic composition and critical reception to relevant broader questions of a historical, philosophical or political nature; and to develop the skills of very close reading the texts we will discuss demand. The module consists of one weekly two-hour seminar. Normally, seminars will centre on the work of two or more poets, and the emphasis will be on close reading and critical analysis; we will discuss the critical reception of the work, as well as looking at first-hand accounts of their practice from the poets themselves, and working toward an understanding of the historical and cultural moments in which the poets worked. We will be looking to establish points of continuity or disagreement between poets as the idea of formal 'experimentalism' or 'innovation' or 'otherness' alters according to time and place. (Group E)</p>				
Pre-requisite(s):	Before taking this module you must take EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O R Hazzard			
Module teaching staff:	Dr Oliver Hazzard (ORH)			

EN3217 Writing Poetry				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 11.00 am Wed			
<p>This module allows students to explore some of the most common techniques, forms and modes of poetry and to develop their own practice as poets. The first half of the semester will focus on aspects of prosody such as meter and rhythm, rhyme and form, image and metaphor, allowing students to reimagine these practices from the point of view of the writing, rather than the analysis, of poetry. The second half of the module will concentrate on some of the main genres of poetry, such as lyric and elegy, with students encouraged to experiment with their own versions or anti-versions of these modes. The first hour each week will be spent discussing an aspect of poetry, with reference to the work of one or two poets, while the second hour will be spent workshopping students' poems.</p>				
Pre-requisite(s):	Before taking this module you must take EN2004			
Anti-requisite(s)	You cannot take this module if you take EN4417 or take EN4420 or take EN4500			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Jones			
Module teaching staff:	Dr Emma Jones (EJ26)			

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EN4312 Authorising English: Society, Gender and Religion in Late Mediaeval English Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr I R Johnson			
Module teaching staff:	Dr Ian Johnson (IRJ)			

EN4314 Old English Afterlives: Literary Anglo-Saxonism				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 - 5.00 pm Tue			
This module studies the relationship between Old English literary culture and the modern imagination. Students will be expected to develop an improved reading knowledge of Old English literature in the original language; an informed awareness of the continuing influence, use and application of Anglo-Saxon culture in modern literature and creative arts; an analytical understanding of the forms and techniques of Old English poetry and of their application to writing in Modern English; a critical appreciation of the historically situated and changing ideologies in which Anglo-Saxonism has been implicated; a familiarity with the critical issues that attend the activities of translation and adaptation, within and across genres and media; an ability to use Old English as a creative resource in their own writing. It is advisable that students have previously taken some beginner's level Old English, such as on EN2003 Mediaeval and Renaissance Texts. (Group A)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of 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 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 coordinator:	Prof C Jones			
Module teaching staff:	Dr Chris Jones (CSJ2)			

EN4315 Apocalyptic Literature in Early English				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof C Jones			
Module teaching staff:	Dr Chris Jones (CSJ2)			

EN4316 Courtly Literature in Middle English				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Tue and 12.00 noon Thu			
<p>This module explores the idea of 'courtly literature' through detailed study of some of the most influential poems in Middle English. Alongside Chaucer's Troilus and Criseyde, students might read works such as Gower's Confessio Amantis, Sir Gawain and the Green Knight or The Floure and the Leafe. The aim of the module is to study fewer, larger texts in greater depth, allowing students to get to grips with the depth and complexity of these canonical works and the literary-critical issues they raise. A central critical issue to be explored is the heated modern debate over the notion of 'courtly love'. (Group A)</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of 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 coordinator:	Dr R Purdie			
Module teaching staff:	Dr Rhiannon Purdie (RP6)			

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EN4341 Renaissance Sexualities: Rhetoric and the Body 1580 - 1660				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Tue and 2.00 pm Thu			
<p>The Reformation and Renaissance in England saw shifts in thinking about the place of sexuality and gender in society. Changing cultural and economic conditions altered the material expression of identity in writing and on stage, while new conceptions of English religion, literary production, global standing, and political priorities informed the period's articulation of the normative and the deviant. This module will examine the representation of sexuality and gender in poems, prose and drama by men and women between 1580 and 1660, as well as the construction of Renaissance sexualities in modern and postmodern criticism and theory. (Group B)</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof L M Hutson			
Module teaching staff:	Dr Harriet Archer			

EN4344 Early English Romance Comedy: Shakespeare and his Contemporaries				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Mon and 11.00 am Wed			
<p>Students will be expected to acquire and to demonstrate, in coursework and in the examination, familiarity with a range of sixteenth- and seventeenth-century texts. They should have considered the relationship between these texts and a variety of different social and cultural contexts, and have developed an awareness of debates surrounding the genres of 'comedy' and 'romance'. Students will acquire knowledge both of literary texts from a certain period and of the genres of these texts. They will also develop skills in close reading and reasoned literary-critical argument. (Group B)</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of 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 coordinator:	Dr A L Davis			
Module teaching staff:	Dr Alex Davis (ALD3)			

EN4346 The Early Tudors: Literature and Reformation				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A L Davis			
Module teaching staff:	Dr Alex Davis (ALD3)			

EN4347 Milton				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of 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 coordinator:	Dr M C Augustine			
Module teaching staff:	Dr Matthew Augustine (MCA3)			

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EN4348 Bodies and Selves in the Renaissance				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	1.00 pm - 3.00 pm Tue			
<p>This module will introduce students to literary texts which are concerned with corporeality and selfhood in the Renaissance period. This will offer students advanced study of major Renaissance texts, many of which are taught at sub-honours level, while encouraging an innovative approach to sources. Works by Rabelais, Spenser, Montaigne, Shakespeare, Webster, Lanyer and others will be explored alongside a variety of contemporaneous material including early modern medical, physiological, and philosophical texts. The aim of this course is to place the relationship between the body, the self, and sensory experience at the heart of our understanding of Renaissance literature. We will consider problems including: the relationship between body, mind, and language in the early modern period; the ways in which culture and society shape embodied life; the religious dimensions of bodily and sensory experience. 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>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G J Pertile			
Module teaching staff:	Dr Giulio Pertile (GJP4)			

EN4361 The Novels of Jane Austen in Context				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K L Garner			
Module teaching staff:	Dr Katie Garner (KLG7)			

EN4362 Mind, Body and Soul: Literature in the Enlightenment

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Tue and 2.00 pm Thu			
<p>The Enlightenment is a contested historical category, with arguments about literature and philosophy contributing to the definition of what enlightens a human subject. By reading major texts of poetry, fiction and non-fiction, this module will explore the ways in which literature constructs relationships between the rational, emotional, spiritual and physical aspects of human life. Students will be encouraged to ask how the physical, emotional and spiritual impinge upon rational accounts of enlightenment, looking at the way 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. Students will consider and question the relationship between literature and broader intellectual movements by conducting close readings of literary texts and understanding their intellectual context. (Group C)</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of 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 coordinator:	Dr T E Jones			
Module teaching staff:	Dr Tom Jones (TEJ1)			

EN4365 Literature and Childhood in the Eighteenth Century

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S C Manly			
Module teaching staff:	Dr Susan Manly (SM32)			

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EN4367 Romantic Gothic				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Mon and 11.00 am Mon			
Ghosts, reanimated bodies, monsters, fragmented manuscripts and haunted spaces fill the works of Romantic poets and novelists alike. This module explores the Romantics' interest in the macabre by placing it in the context of anxieties about the French Revolution, religion, sexuality, race and nation, as well as 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. (Group C)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K L Garner			
Module teaching staff:	Dr Katie Garner (KLG7)			

EN4369 Victorian Literature and Science				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm - 5.00 pm Mon			
How is scientific knowledge transformed when it is deployed in literary writing? How do linguistic strategies such as metaphor shape the communication and reception of scientific theories and concepts? Can students of English analyse a passage of scientific writing in the same way as they would a literary text? This module sets out to answer these questions by exploring the diverse connections between literature and science in the Victorian period. The decades between 1830 and 1900 witnessed the development of the scientific disciplines in their modern forms, and the module will examine the role of literature in disseminating, questioning, and legitimising the intellectual authority of science in Victorian Britain. The module will trace the interactions between literature and science in Victorian poetry, the realist novel, and science fiction, and in the writing of scientists such as the physicist John Tyndall, the biologist Thomas Henry Huxley, and Charles Darwin. (Group C)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of 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:	3-hour Written Examination = 100%			
Module coordinator:	Dr G P Tate			
Module teaching staff:	Dr Greg Tate (GPT4)			

EN4398 Short Dissertation			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available only to students also doing ID4002. Places on ID4002 will be limited and entry will be competitive. Only those applicants who are successful in being admitted to the placement module will be participants in this module.		
Planned timetable:	9.00 am Tue		
This module complements ID4002 'Communication and Teaching in Arts and Humanities' in which students gain substantial experience of a working environment. This module provides the opportunity for students to carry out an extended piece of work (in the form of a short dissertation) on a topic related to their work in ID4002. For example, the topic could have a pedagogical focus, exploring the place of English in education, or it could be a more detailed exploration of a subject related to the student's work in ID4002.			
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004		
Co-requisite(s):	You must also take ID4002		
Learning and teaching methods of delivery:	Weekly contact: 3 hours of classes over the semester, plus consultation hours.		
	Scheduled learning: 3 hours	Guided independent study: 147 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr C Rauer		
Module teaching staff:	Dr Christine Rauer (CR30)		

EN4399 Dissertation in English			
SCOTCAT Credits:	30	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	9.00 am Tue		
The primary objective of this module is the completion of the dissertation. This will entail the process of informed choice of a suitable subject, coherent planning of the research required, the writing up of the results and mastery of the literary and technical skills of presentation. Careful time management, strong individual initiative and motivation and the ability to understand and respect conventions of academic style will be required. The result should be a deeper knowledge or understanding not only of the subject of the dissertation but also of the methods of individual research. As well as offering the satisfaction of completing a personally-chosen task on a topic of special interest this module therefore offers some preparation for those intending to go on to postgraduate study.			
Pre-requisite(s):	Before taking this module you must pass at least 1 module from {any levels matching en3, any levels matching en4}		
Learning and teaching methods of delivery:	Weekly contact: 5 hours per semester + 1 consultation hour weekly.		
	Scheduled learning: 5 hours	Guided independent study: 295 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation = 100%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr L M Burns		
Module teaching staff:	Team taught		

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EN4402 Speeches and Speechwriting: History, Theory and Practice				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon Wed and 1.00 pm Fri			
An introduction to speechwriting, involving a survey of the historical tradition of eloquence as an educational, political, and literary tool, with analysis and practice of rhetorical figures and strategies. Rooted in close reading of speeches from the Renaissance to the present day, the module examines: Classical models and tropes; the values and practices of Renaissance speechmaking; the rise and fall of 'rhetoric' in the 18th and 19th centuries; and the politics of gender, race, and class in contemporary speechmaking styles. Students will write and deliver their own speeches on a set topic as part of the module. (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour lectures, seminars and practical classes, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S J Lodge			
Module teaching staff:	Dr Sara Lodge (SJL15)			

EN4405 Contemporary Poetry in Great Britain and Ireland				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm - 5.00 pm Tue			
The module starts with an overview of the field introducing three key forbears of influence and how they reacted to the 'landscape' of their environment. It will then look at two or three key figures per week [both 'major' and 'minor' figures] through specific works, examination of critical themes and reception, the cultural impact of National identity on their work, and similarities and differences between the work of their respective nations. It will set these practitioners within their own context and time-sometimes making links to other arts and cultures- but also examining how contemporary critical attitudes may now view them. Ideas of 'the mainstream'/ 'the elite' and 'the avant-garde' will be explored and the syllabus will move towards younger contemporary poets to examine how a living poetry responds to its political and cultural environment. (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mr M C Hobson			
Module teaching staff:	Mr Matthew Caley (MCH26)			

EN4406 Contemporary Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 12.00 noon Mon and Thu			
The aim of this module is to introduce some of the most interesting and innovative work in contemporary fiction, and to give you the knowledge and the tools to read it, judge it, and write about it with pleasure and with critical insight. You'll be asked to think rigorously about the idea of the 'contemporary', and how that term might relate to other literary and cultural categories. Spanning the last twenty years or so, the set texts don't attempt any sort of representative cross-section of fiction of the period; rather than seeking such a survey, we will concentrate on how certain writers have used fictional form to think about what is old and what is new: what is current, or anachronistic, or ahead of its time. (To think, that is, about the structure of contemporaneity itself.) (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x lecture and 1 seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J J Purdon			
Module teaching staff:	Dr James Purdon (JJP5)			

EN4407 Twentieth-Century Crime Fiction: Gender and Genre				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Wed			
The module aims to analyse social, cultural and literary formations through the medium of popular fiction. Offering a contrast to canonical readings of the twentieth-century, the course will introduce students to the diversity and complexity of criminal fictions across the century, and will encourage an understanding of the importance of gender in contemporary literary studies. Students should emerge from this module proficient in the analysis of popular culture. They should acquire a knowledge of the history of twentieth-century crime fiction, and an understanding of genre form that can be confidently applied to formula fictions both on and beyond the module. They should also acquire a greater knowledge of feminist and gender theory and feel confident in its application in literary study. Students will also continue to develop skills in textual analysis, and will be encouraged to develop strategies for dealing with texts about which there is little available critical material. They will gain experience in communicating their ideas through oral presentations and group work.				
Learning and teaching methods of delivery:	Weekly contact:			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof G Plain			
Module teaching staff:	Professor G Plain			

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EN4413 Reading the 1940s				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	1.00 pm - 3.00 pm Thu (class) and 2.00 pm - 5.00 pm Fri (film viewing)			
<p>This module offers students the opportunity to study the literature, film and culture of an under- explored decade. The 1940s was a period of unprecedented social and political change, and the course will consider the diversity of writing and representation that emerged from this complex context. Issues of particular concern might include responses to the Second World War, the construction of national identity, class politics, gender roles, the impact of the welfare state, the 'golden age' of British cinema, the 'end of empire' and the onset of the cold war. Students will acquire familiarity with a range of writing and film produced in the 1940s. They should develop an understanding of the historical context of the decade, and of contemporary ideas and attitudes. They should be able to analyse cultural constructions such as class, gender and national identity, and should be confident in discussing both film and literary texts. They will gain experience in independent research and will continue to develop a range of practical and presentational skills, both written and oral.</p>				
Learning and teaching methods of delivery:	Weekly contact:			
	Scheduled learning: 66 hours		Guided independent study: 234 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof G Plain			
Module teaching staff:	Professor Gill Plain			

EN4416 Virginia Woolf				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm - 5.00 pm Thu			
<p>The course offers a survey of Woolf's fiction, complemented by study of her non-fiction including fiction and polemical pieces. The set texts include the majority of Woolf's novels and selections from her short fiction. It is also essential to read a biography of Woolf - the one by Hermione Lee is recommended - and a selection of her essays, but especially the essay 'Mr Bennett and Mrs Brown'. (Group E)</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of 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 coordinator:	Dr E S Sutton			
Module teaching staff:	Dr Emma Sutton (ESS2)			

EN4417 Writing Poetry and Prose				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm - 5.00 pm Thu			
Students will be expected to read widely and to engage with their own and other students' work in a seminar/workshop context. There will be an element of 'fieldwork' (note-taking and observation) and all students will be expected to read out extracts from their work in progress and to contribute to discussion of the set texts and ideas arising from them. The module will help students approach literature confidently as participants, as well as critics. They will have a broader awareness of contemporary writing, and will develop skills in shaping their own work. (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Anti-requisite(s)	You cannot take this module if you take EN4420 or take EN4500			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O R Hazzard			
Module teaching staff:	Dr Oliver Hazzard (ORH)			

EN4418 American Poetry since 1950				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Mon			
This module offers an introduction to the recent and contemporary poetry of the United States, beginning with some important precursors, and working through to contemporary poetic theories and practices, including ideas related to regional and indigenous poetics and the various ways in which poets reflect and engage with the contemporary world. Through the close study of a number of poets, a sense will be gained of the role and importance of contemporary poetry in the United States, including its role as a medium for political and cultural dissidence, and including ecocritical, gender-related and regional perspectives. (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J Burnside			
Module teaching staff:	Prof John Burnside (JB44)			

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EN4419 American Fiction: Self and Nation (1865 - 1939)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Semester 1: 1.00 pm Tue and 12 noon Wed Semester 2: 2.00 pm - 4.00 pm Fri			
The module provides an introduction to American fiction through the chronological study of ten texts published between the end of the Civil War and the beginning of the Second World War. The module encourages students to reflect on what is distinctive about the American novel, to develop knowledge of the way in which this term had changed, and to encounter some examples of the rich variety of American fiction. The module also encourages students to develop an understanding of the socio-political contexts of these texts: students will be encouraged to evaluate the relationship between historical events such as Reconstruction, the 'Jazz Age', and the Depression and the development of the American novel. (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J D Byatt			
Module teaching staff:	Dr Kristen Treen (S1); Dr Emma Sutton (S2) Module coordinator(s): Dr Kristen Treen (S1); Dr Emma Sutton (S2)			

EN4420 Writing Prose				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Wed and 11.00 am Wed			
This module is designed to enable students to improve their creative prose-writing skills. The focus is on writing as a dynamic and on-going process. Students will be expected to read widely in contemporary fiction and non-fiction and to engage with their own and other students' writing in the workshops. (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Anti-requisite(s)	You cannot take this module if you take EN3217 or take EN4417 or take EN4500			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 workshop, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms L G Glaister			
Module teaching staff:	Ms Lesley Glaister (LGG)			

EN4422 Poetic Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Tue, 12.00 noon Thu			
The module will cover significant areas of thinking about poetic language in a thematic way. Students will be introduced to general conceptions of poetic and literary language from structuralism, pragmatics and analytic philosophy. We will then move on to discuss theories of measure, figure, selection, equivalence, deviance and of poetic spirit. Emphasis will be placed on the linguistic and philosophical assumptions and objectives of the theorists studied. Students will be encouraged to continue asking what picture of language and what picture of poetry emerges from the texts studied. Theoretical discussion will be complemented by focused close reading sessions in which the class will test theory in practice. (Group E)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 3 weekly hours in Weeks 1-7; a one-off 30 min. discussion at some point in Weeks 8-11, plus compulsory attendance at a symposium (ca. 2.5 hours).			
	Scheduled learning: 24 hours		Guided independent study: 276 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T E Jones			
Module teaching staff:	Dr T Jones			

EN4423 Material Culture in Victorian and Modernist Fiction				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm - 4.00 pm Fri			
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)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C M Alt			
Module teaching staff:	Dr Christina Alt (CMA7)			

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EN4425 Celtic Modernisms				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am - 12.00 noon Tue			
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)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2 x 1-hour seminars and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P Mackay			
Module teaching staff:	Dr Peter MacKay (PM83)			

EN4426 Civil Wars on Page and Screen				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm - 4.00 pm Mon, plus film viewing 2.00 pm - 5.00 pm Fri			
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 Somali Civil War (1988-present).				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour class and 2 optional consultative hours, and 3 optional hours of film viewing			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Raychaudhuri			
Module teaching staff:	Dr Anindya Raychaudhuri (AR220)			

EN4427 The Shape of the Poem

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm - 5.00 pm Tue			
The shape of the poem refers not only to the evolution of poetic form[s] but also to 'the general health' of the poem - how confident it has been and currently is as a form within itself and as an 'art-form' within culture. We will look at - the line, metre, the prose poem, the sonnet, the sestina, the pantoum, rhyme, sonic effects, metaphor, syllabics, Concrete poetry, experimental forms, the sequence, restraints and the anagram, and then on to the new oralities - the influence of song, Spoken Word, Rap, The Slam, 'reading live from memory' as 'opposed' to the page, poetry on-line and 'the informe' - ie no form.				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar and 2 optional consultative hours.			
	Scheduled learning: 44 hours		Guided independent study: 256 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mr M C Hobson			
Module teaching staff:	Mr Matthew Caley			

EN4430 Making Performance

SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am - 12.00 noon Fri			
The twentieth and twenty-first centuries have seen a broad range of radical approaches to the task of making performance. This module will explore a range of these approaches, which may include physical theatre, theatres of cruelty, puppetry and mask, psychophysical performance and situationism. Through practical workshops, students will explore intersections of theory and practice, developing their skills as researchers and makers of performance. Students will be introduced to a diverse range of performance practices developed by British and European theatre makers throughout the twentieth and twenty-first centuries. Through tutor-led workshops, they will explore the relationships between theory and practice, and interrogate ways in which innovative approaches to performance-making have shaped contemporary dramatic output. Students will develop their research skills through set-reading and independent study, as well as working together to produce practical performance pieces using techniques encountered on the course. (As this is not an acting course, at no time during workshops or in the Group Practical Project will students be assessed based on the quality of their acting.)				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2-hour practical classes, and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	New Coursework = 100%			
Module coordinator:	Dr J S F Haddow			
Module teaching staff:	Dr Sam Haddow (JSFH)			

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EN4432 Poetry and Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm - 4.00 pm Tue			
<p>This module examines the relationship between poetry and cinema in the last century. Film is often treated as a narrative art, yet to a number of writers and filmmakers it is poetry, and not the novel, that is cinema's closest literary relative. In this module we will discuss tendencies and techniques common to both arts, with a focus on theories of the poetic image and of the moving image; key moments of cross-fertilisation between poetry and cinema; the development of the 'film-poem'; the depiction of cinema in poetry and vice versa; and the different uses of poetry in a range of world cinemas. Topics covered include Modernist poetry and cinematic technologies, with a focus on Charlie Chaplin, Hart Crane and H.D.; Italian cinema of the 60s; mid-century American poetry and the influence of Hollywood; poetry in Bollywood; Soviet and Iranian cinema.</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar and 2 optional consultative hours.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Jones			
Module teaching staff:	Dr Emma Jones (EJ26)			

EN4433 Black and Asian British Writing				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	1.00 pm Tue and 1.00 pm Thu			
<p>This module explores the poetry and novels of Black British and British Asian writers from the 1950s to the present. Drawing on theories of postcolonialism, race and difference, the Black Atlantic, and multiculturalism, this module reflects on the history and ends of empire, the migration of peoples from the colonies to the 'motherland', the rise of racist nationalism in the post-war era, and the politics of contemporary multiculturalism. We will read poetry and novels that invite us to explore a range of topics that may include the transatlantic slave trade, Windrush, the rise of xenophobic nationalism, gender, interracial tensions in Thatcher's Britain, and the changing dynamics of contemporary Britain through literary representations of London and beyond. The module will provoke discussion on selected theoretical writings and close readings of our set literary texts.</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Learning and teaching methods of delivery:	Weekly contact: One 2-hour class or Two 1-hour classes per week and 2 optional consultative hours.			
	Scheduled learning: 22 hours		Guided independent study: 286 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L M Burns			
Module teaching staff:	Dr Lorna Burns (LMB21)			

EN4500 Playwriting				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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 be able to write for the theatre, to have an awareness of the creative process and be able 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. By the end of this course the students will have been taught the principles of playwriting, developed their own techniques through exercises, will be able to feedback critically in seminars as well as their written assessments, and will have created original work. (Group E)</p>				
Pre-requisite(s):	Before taking this module you must pass EN2003 and pass EN2004			
Anti-requisite(s)	You cannot take this module if you take EN4417 or take EN4420 or take EN3217			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars and 2 optional consultative hours			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof Z K Harris			
Module teaching staff:	Professor Zinnie Harris; Mr Oliver Emanuel Module coordinator(s): Professor Zinnie Harris/Mr Oliver Emanuel			

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EN4794 Joint Dissertation (30cr)			
SCOTCAT Credits:	30	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.		
Planned timetable:	9.00 am Tue		
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/)			
Pre-requisite(s):	Student may not take than 30 credits in other dissertation / project modules. Student must have a letter of agreement. Before taking this module you must pass at least 1 module from {any levels matching en3, any levels matching en4}		
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.		
	Scheduled learning: 0 hours	Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: As per Letter of Agreement.		
Re-assessment pattern:	As per Letter of Agreement.		
Module coordinator:	Dr C Rauer		

School of Geography & Sustainable Development

Geography (GG) modules

GG3100 Quaternary Science: Principles and Practice			
SCOTCAT Credits:	20	SCQF Level 9	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available every year.		
Planned timetable:	11:00am -1:00pm Wed		
Spanning the last 2.6 million years, the quaternary provides examples of dramatic climatic and environmental change. From when ice sheets covered much of northern Europe and North America, and times when conditions were much like today (but with lions and hippos in Trafalgar Square). It has much to teach us about how current ecosystems function, the importance of fire, hydrology or sea level change in controlling the direction of ecosystem and landscape change as well as the direction of human cultural and biological evolution. The module covers topics including post-glacial sea level change, Mediterranean fire ecology, Amazon vegetation dynamics, and the anthropogenic disturbance of ecosystems.			
Pre-requisite(s):	Before taking this module you must pass GG2011 and pass GG2012		
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x10 weeks), 1 seminar (x4 weeks), 1 practical class (x4 weeks), field class (approx 2 hours, x2 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 - 50%, Written examination 50%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr K H Roucoux		
Module teaching staff:	Various		

GG3201 Single Honours Research Design and Methodology Training (60)			
SCOTCAT Credits:	60	SCQF Level 9	Semester 2
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass GG2012		
Anti-requisite(s)	You cannot take this module if you take GG3202 or take GG3203		
Learning and teaching methods of delivery:	Weekly contact: Varies according to the combination of elements (module units) chosen by the student. Average of 10 hours of classroom time (x 11 weeks), and a 1-week (40 hour) field class		
	Scheduled learning: 150 hours	Guided independent study: 450 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	No Re-assessment available		
Module coordinator:	Dr R T Streeter		
Module teaching staff:	Team taught		

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GG3202 Joint Honours Research Design and Methodology Training (30)				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Before taking this module you must pass GG2012			
Anti-requisite(s)	You cannot take this module if you take GG3201 or take GG3203			
Learning and teaching methods of delivery:	Weekly contact: Varies according to the combination of elements (module units) chosen by the student. Average of 10 hours (x 7.5 weeks).			
	Scheduled learning: 75 hours		Guided independent study: 225 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R T Streeter			
Module teaching staff:	Team taught			

GG3203 Research Design and Methodology Training (50)				
SCOTCAT Credits:	50	SCQF Level 9	Semester	2
Academic year:	2018/9			
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 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.				
Pre-requisite(s):	Before taking this module you must pass GG2012			
Anti-requisite(s)	You cannot take this module if you take GG3201 or take GG3202 or take SD3203			
Learning and teaching methods of delivery:	Weekly contact: Varies according to the combination of elements (module units) chosen by the student. Average of 10 hours (x 8.5 weeks), and a 1-week (40 hour) field class.			
	Scheduled learning: 125 hours		Guided independent study: 375 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R T Streeter			
Module teaching staff:	Team taught			

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GG3204 Research Design and Methodology Training (40)

SCOTCAT Credits:	40	SCQF Level 9	Semester	2
Academic year:	2018/9			
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>				
Learning and teaching methods of 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 = 15%, Coursework = 85%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr R T Streeter			
Module teaching staff:	Team taught			

GG3227 Colonial and Postcolonial Geographies

SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	9:00am - 11:00am Mondays			
<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>				
Pre-requisite(s):	Before taking this module you must (pass GG2011 and pass GG2012) or (pass SD2001 and pass SD2002)			
Learning and teaching methods of 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 = 60%, Coursework = 40%			
Module coordinator:	Dr D W Clayton			

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GG3229 Environmental Management in Scotland				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle.			
Planned timetable:	09:00 - 11:00 Tuesday			
<p>This module explores current environmental management issues in Scotland. It discusses the primary sectors of land and 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>				
Pre-requisite(s):	Before taking this module you must (pass GG2011 and pass GG2012) or (pass SD2001 and pass SD2002)			
Learning and teaching methods of 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 = 60%, Practical Examination = 20%, Coursework = 20%			
Module coordinator:	Dr C R Warren			

GG3234 Migration and Transnationalism				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	14:00 - 16:00 Friday			
<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>				
Pre-requisite(s):	Before taking this module you must (pass GG2011 and pass GG2012) or (pass SD2001 and pass SD2002)			
Learning and teaching methods of 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 = 50%, Coursework = 50%			
Module teaching staff:	Dr D McCollum			

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GG3238 Development: voice, power and identity in global times

SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11:00am - 1:00pm Mondays			
<p>This module focuses on how contemporary international development is changing. It examines how different development actors gain a voice and political prominence in contemporary development debates and policy making. While national governments, international donors and Non Government Organisations (NGOs) continue to influence development agendas, the global context for development is altering. The current moment is marked by shifting geopolitics and hyper mobility giving rise to new development agendas such as securitisation, religion and identity as well as a greater focus in global popular culture on individuals 'making a difference'. These changes create new opportunities for different actors to influence development. We will examine whether these groups and individuals 'do development differently' and ask who is excluded. Students will understand how they shape spaces locally, nationally and transnationally and will assess if this represents an alternative form of development.</p>				
Pre-requisite(s):	Before taking this module you must take GG2012 or take SD2002			
Learning and teaching methods of delivery:	Weekly contact: Two 1-hour lectures (x11 weeks), One 1-hour seminar/workshop (x11 weeks)			
	Scheduled learning: 33 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof N D Laurie			
Module teaching staff:	Prof N Laurie			

GG3242 Geographies of the Life Course

SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11:00am - 1:00pm Thursday			
<p>Since the 1960s life course theory has become one of the most influential paradigms in human geography. The approach emphasises how human development is a life-long process and promotes understanding human activity through a greater awareness of the geographical, historical and cultural context in which people are situated. This module will provide an introduction to the life course approach and how it applies to key areas of human geography, covering the population processes such as family building (childbearing and partnership), migration, ageing and health studies. This will incorporate the study of various life course stages and transitions between them (childhood, adolescence, adulthood and older age), and the production of health inequalities throughout the lifespan. The module is taught through lectures, seminars and practical classes, and assessment is a mix of coursework and written exam.</p>				
Pre-requisite(s):	Before taking this module you must pass GG2011 and pass GG2012			
Learning and teaching methods of delivery:	Weekly contact: 8 lectures (x 1 hour), 8 seminars (x 2 hours), 1 revision seminar (x 2 hours), 1 student presentations (x 3 hours)			
	Scheduled learning: 29 hours		Guided independent study: 180 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 10%, Coursework = 40%			
	As used by St Andrews: Coursework (10% presentation, 40% critical essay)= 50%, 3-hour Written Examination = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K L Keenan			
Module teaching staff:	Dr K Keenan			

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GG3263 Glaciers and Glaciation				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Availability TBC - Offered on a two-year cycle			
Planned timetable:	09:00 - 11:00 Wednesday			
<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>				
Pre-requisite(s):	Before taking this module you must pass GG2011 and pass GG2012			
Learning and teaching methods of 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 û 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 = 60%, Coursework = 40%			
Module coordinator:	Prof D I Benn			

GG3264 Oceans and Climate				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Availability - TBC - Offered on a two-year cycle			
Planned timetable:	11:00 - 13:00 Tuesdays			
<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>				
Pre-requisite(s):	Before taking this module you must pass GG2011 and pass GG2012			
Learning and teaching methods of 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:	Written Examination = 60%, Coursework = 40%			
Module coordinator:	Prof W E N Austin			

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GG3272 Biogeography and the Earth System				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two-year cycle			
Planned timetable:	11.00 am – 1:00 pm Monday			
<p>Planet Earth appears to be unique as the home of life. Biological processes are deeply woven into the fabric of the physical world and human societies. The resulting interactions, at every scale from microscopic to global, are fundamental to the geography of our planet. This module explores the discipline of biogeography, which describes and explains the distribution of different life forms (species, communities) across the Earth. In lectures, seminars and in the field, we will investigate the fundamental controls on the distribution of life, and engage with ongoing debates. The module goes on to consider the role of biology in the Earth system as a whole, focusing on the cycling of key elements including carbon, nitrogen and phosphorus & the behaviour of which has huge ramifications for society today. Finally, using examples from around the globe, we will look at biogeographical changes in the Anthropocene, and consider the challenges for conservation and development.</p>				
Learning and teaching methods of 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: 24 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Re-assessment pattern:	Students will have to resit the failed component(s) in order to obtain a capped mark of 7 for the module as a whole, completing one or more of the following: A 1500 word report, following the format of Assessment 1, using a different, secondary dataset (30%) - A 1500 word guide to the biogeography of a selected region (i.e. a different region to the first attempt; 30%) - A two-hour written exam (40%).			
Module coordinator:	Dr I T Lawson			
Module teaching staff:	Dr I Lawson, Dr K Roucoux			

GG3273 Scrutinising Segregation: Geographies of Diversity and Inequality				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11:00am - 1:00pm Wednesday			
<p>Is Britain residentially segregated? How do we know this? What social and population processes shape segregation? Along what lines (race, religion, class) is segregation considered? Why does segregation matter? How has the question of the patterning of where people live become connected to international relations and national security? Through consideration of these questions we will think critically about diversity and inequality, and how these salient social themes have been thought about academically and politically. We will examine the evidence on segregation and how this has been appropriated and misappropriated, and we will discover what Geographers can contribute, conceptually and methodologically, to these debates.</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour seminar (x 11 weeks), 1 x 1-hour lecture (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 60%, Coursework = 40%			
Module coordinator:	Dr N Finney			

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GG3275 Geomorphology: Landscapes, Landforms and Earth Surface Processes				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	09:00 - 12:00 Thursday			
This module considers some of the fundamental processes operating at the surface and near-surface of the Earth, and the outcome of these processes in terms of present-day landscapes and landforms. It is structured in terms of three components: (1) continents, oceans, mountains, rocks and relief (plate tectonics, volcanicity, orogenesis and the role of lithology in landscape evolution); (2) geomorphological processes (weathering, slope, fluvial and periglacial processes, and processes characteristic of arid landscapes); and (3) landscape evolution during the Quaternary Period (the past ~2.6 million years). Where appropriate, processes and landforms are exemplified and illustrated with case studies drawn from the landscape of Scotland.				
Pre-requisite(s):	Before taking this module you must pass GG2011 and pass GG2012			
Learning and teaching methods of delivery:	Weekly contact: 3 hours of lectures (x8 weeks), 3 hours of presentations (x1 week), 1.5 days fieldwork.			
	Scheduled learning: 47 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 10%, Coursework = 70%			
	As used by St Andrews: Coursework = 80% coursework (including presentation worth 10%), 1-hour Written Class Test = 20%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof C K Ballantyne			
Module teaching staff:	Prof C Ballantyne			

GG3301 Special Topic for Joint or Major Honours in Geography (Junior Honours)				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Entry to a Joint or Major Honours programme in Geography.			
Planned timetable:	timetable to be confirmed.			
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.				
Pre-requisite(s):	Before taking this module you must pass GG2011 and pass GG2012			
Learning and teaching methods of delivery:	Weekly contact: Students undertake the lecture/seminar contact hours associated with any 3000-level GG, SG or SD coded option module, but do a separate assessment (4000-word essay). Weekly contact hours vary (with the option module taken), but the average scheduled learning across the range of modules available is 23 hours.			
	Scheduled learning: 23 hours		Guided independent study: 77 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework Essay = 100%			
Module coordinator:	Dr R T Streeter			
Module teaching staff:	Various			

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GG3302 Special Topic for Honours in Geography (Senior Honours)				
SCOTCAT Credits:	10	SCQF Level 9	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Entry to a Joint or Major Honours programme in Geography			
Planned timetable:	timetable to be confirmed.			
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.				
Pre-requisite(s):	Before taking this module you must pass GG2011 and pass GG2012			
Learning and teaching methods of delivery:	Weekly contact: Students undertake the lecture/seminar contact hours associated with any 3000-level GG, SG or SD coded option module, but do a separate assessment (4000-word essay). Weekly contact hours vary (with the option module taken), but the average scheduled learning across the range of modules available is 23 hours.			
	Scheduled learning: 23 hours		Guided independent study: 77 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework Essay = 100%			
Module coordinator:	Dr R T Streeter			
Module teaching staff:	Various			

GG4201 Advanced Debates in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Core - available every year.			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Before taking this module you must pass SG3201 or pass SG3202 or pass SG3203 or pass SG3204			
Learning and teaching methods of delivery:	Weekly contact: 6 x 2-hour seminars during the semester.			
	Scheduled learning: 12 hours		Guided independent study: 88 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr D W Clayton			
Module teaching staff:	Team taught			

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GG4297 Joint Honours Research Dissertation in Geography				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Core - available every year.			
Planned timetable:	To be arranged.			
The research dissertation is the fundamental piece of independent work upon which the Geography degree is based. It provides students with the opportunity to design and undertake an independent, original piece of empirical research under the supervision of a member of staff. The dissertation is a substantial, independent piece of research that represents the culmination of both substantive and core training in Geography. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/).				
Pre-requisite(s):	Before taking this module you must pass GG3202 or pass SG3202			
Anti-requisite(s)	You cannot take this module if you take GG4298			
Learning and teaching methods of delivery:	Weekly contact: Up to 8 hours of guided study per student over the semester (one-to-one supervision, by arrangement with supervisor)			
	Scheduled learning: 8 hours		Guided independent study: 292 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr S Leahy			
Module teaching staff:	Team taught			

GG4298 Research Dissertation in Geography				
SCOTCAT Credits:	50	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Core - available every year.			
Planned timetable:	To be arranged.			
The research dissertation is the fundamental piece of independent research work upon which the Geography degree is based. It provides students with the opportunity to design and undertake an independent, original piece of empirical research under the supervision of a member of staff. The dissertation is a substantial, independent piece of research that represents the culmination of substantive and core training in Geography. An important component of the dissertation is the annual Senior Honours Research Conference at which all students present their work to members of the school and to Junior Honours students as an oral presentation.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Pre-requisite(s):	Before taking this module you must pass GG3201 or pass GG3203			
Anti-requisite(s)	You cannot take this module if you take GG4297			
Learning and teaching methods of delivery:	Weekly contact: Up to 8 hours of guided study per student over the semester (one-to-one supervision, by arrangement with supervisor), plus a 1 day (8-hour) conference			
	Scheduled learning: 16 hours		Guided independent study: 490 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation and Conference presentation = 100%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr S Leahy			
Module teaching staff:	Team taught			

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GG4301 Advanced Study for Joint or Major Honours in Geography				
SCOTCAT Credits:	10	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Entry to a Joint or Major Honours programme in Geography			
Planned timetable:	timetable to be arranged.			
This module is designed to allow Joint or Major Honours students in their Senior Honours year to engage with the subject matter of a selected 20-credit optional module in Geography (GG3221 - GG3289) yet balance the workload across the four semesters of their Honours programme. Students complete the contact hours of their chosen module but undertake a separate assessment, at 4000-level (an advanced essay).				
Pre-requisite(s):	Entry to a joint or major honours programme in geography. Before taking this module you must (pass GG3202 and pass GG3203) or (pass SG3202 and pass SG3203)			
Learning and teaching methods of delivery:	Weekly contact: Students undertake the lecture/seminar contact hours associated with any 3000-level GG, SG or SD coded option module, but do a separate assessment (4000-word essay). Weekly contact hours vary (with the option module taken), but the average scheduled learning across the range of modules available is 23 hours.			
	Scheduled learning: 23 hours		Guided independent study: 77 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework Essay = 100%			
Module coordinator:	Dr R T Streeter			
Module teaching staff:	Various			

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Sustainable Development (SD) modules

SD3100 Methodologies for Sustainable Development				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures - 14:00 - 17:00 Tuesdays			
<p>This module prepares students to undertake final year dissertation research. This module builds on the research methods explored in other SD honours modules. Students will learn about how to design and execute a research project, how to situate research questions in the broader agenda of Sustainable Development and within appropriate interdisciplinary literatures. A group research project provides the opportunity to apply this learning in a fieldwork setting. Students taking this module will understand the wider epistemological debates surrounding interdisciplinary, know how to define problems and form tractable research questions as well as how to design rigorous methodologies to answer these questions. By the end of the module each student will have developed a research proposal suitable for a final year dissertation project.</p>				
Pre-requisite(s):	Students require 30 credits in sd modules at 3000- or 4000-level. Before taking this module you must take SD2002			
Anti-requisite(s)	You cannot take this module if you take SG3201 or take SG3202 or take SG3203 or take SG3204 or take GG3201			
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar (x 7 weeks); 1 x 3-hour practical (x 3 weeks); residential field work (x 3 days)			
	Scheduled learning: 57 hours		Guided independent study: 252 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr R M White			
Module teaching staff:	Team taught			

SD3111 Home and Energy Geographies				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10:00am - 1:00pm Thursdays (lectures)			
<p>An abundant and uninterrupted supply of energy underpins all of our everyday activities; it is fundamental to the quality of our lives. This module will explore the history of our energy use and how it is implicated in modern life. It will do this by exploring why we need energy, the nature of energy demand (e.g. we use more energy than ever before, and our energy demand is predicted to double by the year 2050), and the interconnectedness of energy and sustainability. This module will predominantly focus on domestic energy use (and therefore discuss notions of home, dwelling and domesticity), but will also link to international debates about energy and sustainability. Throughout the module, theories of social and technological change will be explored as a means to understanding transitions in energy demand.</p>				
Pre-requisite(s):	Before taking this module you must take SD2002 or take GG2012			
Anti-requisite(s)	You cannot take this module if you take SD3221			
Learning and teaching methods of delivery:	Weekly contact: One 2-hour lecture (x11 weeks), One 1-hour seminar (x9 weeks)			
	Scheduled learning: 31 hours		Guided independent study: 269 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 2-hour Written Examination = 60%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr L A Reid			
Module teaching staff:	Dr L Reid			

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SD4111 Governance for Sustainability				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10:00am - 1:00pm Friday			
<p>Many of the important sustainability issues we face as a society are complex and multi-faceted. Building more sustainable solutions is likely to require collaboration between different actors at multiple scales. The effectiveness of institutional arrangements has become a key question within the sustainability paradigm. What principles of governance can we bring to bear in the design and reform of governance systems which will lead to more sustainable outcomes? This module will explore insights from planning, environmental geography, political science and other social science disciplines. Students will acquire practical knowledge of governance arrangements for sustainability, as well as critical skills to assess notions of 'Good' Governance. Students will also develop transferrable research skills for policy and institutional analysis.</p>				
Pre-requisite(s):	Before taking this module you must take SD2002			
Anti-requisite(s)	You cannot take this module if you take SD3222			
Learning and teaching methods of delivery:	Weekly contact: One 2-hour lecture (x10 weeks), One 2-hour seminars (x2 weeks), One 2-hour practicals (x4 weeks)			
	Scheduled learning: 35 hours		Guided independent study: 265 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr T A Stojanovic			
Module teaching staff:	Dr T Stojanovic			

SD4113 Environment and Development Economics				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10:00 - 12:00 Tuesday			
<p>The world has changed dramatically since the early 1700s, before the onset of modern economic growth and the industrial revolution. However, despite rapid advancements, the world today is divided between high-income, middle-income, and low-income countries. This module takes a broad perspective on economic development and how economic development interacts with the environment. The module introduces key concepts in economic development and natural resource management.</p>				
Pre-requisite(s):	Before taking this module you must take SD2002			
Anti-requisite(s)	You cannot take this module if you take SD3224 or take SD5101			
Learning and teaching methods of delivery:	Weekly contact: Two 1-hour lectures (x10 weeks), Two practicals (x4 weeks)			
	Scheduled learning: 28 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr E McLaughlin			
Module teaching staff:	Dr E McLaughlin, Prof N Hanley, Dr T Borger			

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SD4114 Society, Sustainable Consumption and Implementing Change				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Planned timetable:	Lectures - Thursday 10:00 - 11:00 Practicals - Thursday 11:00 - 13:00			
	<p>This module focuses on the social theories and accounts of choice, change, and stability that are gaining increasing attention in sustainable consumption debates. Research and policy in sustainable consumption is largely dominated by techno-economic thinking which overlooks social organisation of some of the more ordinary aspects of everyday life that are fundamental determinants of an individual's environmental impact. As well as considering how societies manage essential but ordinary forms of consumption, the module also expects students to design, implement and reflect on an intervention to make their local community more sustainable. This module will challenge students to think about the complexity of steering everyday life to be more sustainable.</p>			
Pre-requisite(s):	Before taking this module you must pass SD2002 and pass SD2001			
Learning and teaching methods of delivery:	Weekly contact: One 1-hour lecture (x10 weeks), One 2-hour seminar (x9 weeks), One 2-hour group presentation session (x1 week)			
	Scheduled learning: 30 hours		Guided independent study: 275 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 60%, 2-hour Written Examination = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr K S Ellsworth-Krebs			
Module teaching staff:	Dr K Ellsworth-Krebs			

SD4297 Dissertation in Sustainable Development				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to Sustainable Development Honours students.			
Planned timetable:	To be arranged.			
	<p>This dissertation builds 3000-level research methods training and will demonstrate the importance of an interdisciplinary approach to key questions of sustainable development. This independent research will involve the review of relevant literatures, the application of rigorous methodologies, the collection of data as well as the appropriate analysis and interpretation of data. A final dissertation of not more than 10,000 words will comprise the primary mode of assessment but students will also participate in the Senior Honours Research Conference at which all students will present their work to members of the school. To support this learning students will be supervised by a member of staff and collective workshops on relevant skills such as oral presentation skills, approaches to scientific writing, and presenting data will also be offered. Students will also be invited to attend a dissertation away day at the beginning of the semester.</p>			
Pre-requisite(s):	Before taking this module you must take SD3100 or take SG3201 or take SG3203 or take SG3204			
Anti-requisite(s)	You cannot take this module if you take SD4299			
Learning and teaching methods of delivery:	Weekly contact: 1 away day (8 hours), 2-hour skills workshops (x4), up to 10 hours individual supervision, by arrangement with supervisor, student research conference (4 hours)			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 5%, Coursework = 95%			
	As used by St Andrews: Coursework (10,000-word dissertation = 95%, oral or poster presentation a student research conference = 5%) = 100%			
Re-assessment pattern:	10,000-word Dissertation = 100%			
Module coordinator:	Dr R M White			
Module teaching staff:	Team taught			

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SD4299 Dissertation in Sustainable Development				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Core - Available only to students who intend an Honours Degree in Sustainable Development.			
Planned timetable:	To be arranged.			
<p>This module is largely based upon independent study. Students select a research question in Sustainable Development, mount a research programme to investigate the topic, and write a dissertation on the work. The topic is selected during the second semester of the junior honours year; data can be collected during the following vacation with data analysis and the writing of the dissertation taking place over both semesters of Senior Honours. Each student is supervised by a member of the teaching staff from an appropriate disciplinary area who will ensure that the topic chosen is viable and advise students on data collection and analysis. Students attend an introductory session at the start of semester 2, followed by a series of 'workshop' sessions covering aspects of research design and process during the semester. Individual tutorials are decided between the individual student and their supervisors. The dissertation will normally be based in the disciplinary area of the student's partner subject, but in recognition of the interdisciplinary nature of the field of study of sustainable development and of the SD Programme, the dissertation will itself be interdisciplinary to some extent. An important component of the dissertation is the annual Senior Honours Research Conference at which all students present their work to members of the school and to Junior Honours students as an oral presentation.</p>				
Pre-requisite(s):	Before taking this module you must take SG3201 or take SG3203 or take SG3204 or take SD3100			
Anti-requisite(s)	You cannot take this module if you take SD4002 or take SD4297			
Learning and teaching methods of delivery:	Weekly contact: Up to 8 hours of guided study per student over the semester (one-to-one supervision, by arrangement with supervisor), plus a 1 day (8-hour) conference			
	Scheduled learning: 16 hours		Guided independent study: 584 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation and Conference Paper = 100%			
Re-assessment pattern:	Oral Examination = 100%			
Module coordinator:	Dr R M White			
Module teaching staff:	Team taught			

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Sustainable Geography (SG) modules

SG4221 Review Essay				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Core - available every year			
Planned timetable:	4.00 pm - 6.00 pm Thu			
This elective requires students, working independently, to identify and critically review a body of literature, giving an account of its substantive content, and critically assessing the evidence on which it is based. Students can either identify an intellectual field that lies outside those addressed in available 3000-level options modules, or build on a field covered in the programme, pursuing it at greater depth. In addition to supervisory sessions and module tutorials, students may also attend sessions in a relevant 3000-level option module running in the same semester.				
Pre-requisite(s):	Before taking this module you must pass SG3201 or pass SG3202 or pass SG3203 or pass SG3204			
Learning and teaching methods of delivery:	Weekly contact: Introductory lecture and seminar (2 hours) followed by guided independent study (one-to-one supervision)			
	Scheduled learning: 2 hours		Guided independent study: 198 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Review Essay = 100%			
Module coordinator:	Dr S Leahy			
Module teaching staff:	Team taught			

SG4222 Advanced Qualitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm - 4.00 pm Thu			
This module offers advanced training in methods of qualitative analysis that facilitate dissertation work and develop transferable skills for future careers. Learning is project/problem-based, and students gain practical experience of working with a range of qualitative data (e.g. archives, visual and textual documents and interview transcripts) using a range of analytical approaches (e.g. discourse analysis, deconstruction, grounded theory and computer-assisted qualitative analysis). Research data are drawn from a range of areas within geography and sustainable development. . Techniques, themes and materials will vary according to staff availability.				
Pre-requisite(s):	Before taking this module you must pass SG3201 or pass SG3202 or pass SG3203 or pass SG3204			
Learning and teaching methods of delivery:	Weekly contact: 2-hour lecture (x 4 weeks), 2-hour seminar (x2 weeks), 2- hour practical (x3 weeks)			
	Scheduled learning: 18 hours		Guided independent study: 182 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework project = 100%			
Module coordinator:	Dr D W Clayton			
Module teaching staff:	Team taught			

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SG4223 Advanced Quantitative Analysis				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Lectures - 1.00 pm - 3.00 pm Tue Practicals - 3.00 pm - 5.00 pm Tue			
<p>Students taking this module will learn some of the core research skills necessary to be a professional quantitative social science researcher and then to carry out a typical consulting project. It will allow them to explore a substantive policy issue, carry out their own quantitative research and then make recommendations based on these findings. They will be presented with a 'real world' scenario and be expected to take on the role of a researcher who is advising policy makers; in simulations of various policy forums, they will then learn how to defend their recommendations and advice. They will first be taught the relevant quantitative research skills and introduced to potentially useful research resources. They will then be expected to construct their own research strategy, carry out the necessary research and present this in various formats, working independently of the teaching staff.</p>				
Pre-requisite(s):	Before taking this module you must pass SG3201 or pass SG3202 or pass SG3203 or pass SG3204			
Learning and teaching methods of delivery:	Weekly contact: 2-hour lectures, 2-hour seminars, 1-hour practical classes each week for 7 weeks, and occasional tutorials.			
	Scheduled learning: 38 hours		Guided independent study: 162 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 13%, Coursework = 87%			
	As used by St Andrews: Practical Examination = 13%, Coursework = 87%			
Re-assessment pattern:	Coursework project = 100%			
Module coordinator:	Dr K L Keenan			
Module teaching staff:	Team taught			

SG4224 Advanced Topics in Physical Sciences				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Lectures - 2.00 pm - 3.00 pm Thurs Practicals - 3.00 pm - 5.00 pm Thurs			
<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>				
Pre-requisite(s):	Before taking this module you must pass SG3201 or pass SG3202 or pass SG3203 or pass SG3204			
Learning and teaching methods of delivery:	Weekly contact: 2 hour lectures (x 9 weeks) and 1 x 1-day (4 hour) field class.			
	Scheduled learning: 22 hours		Guided independent study: 178 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework project = 100%			
Module coordinator:	Dr R T Streeter			
Module teaching staff:	Team taught			

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SG4228 Advanced Topics in Geographic Information Science (GISci)			
SCOTCAT Credits:	20	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available every year.		
Planned timetable:	Lectures - 1.00 pm - 3.00 pm Mon Practicals - 3.00 pm - 5.00 pm Mon		
<p>The first part of the module explores advanced GIS and spatial analysis techniques for use with geographic datasets. Students will gain theoretical and applied knowledge in order to study and describe spatial patterns in geographic data. Theoretical understanding will be emphasised through lectures and readings. Labs/practicals will be designed to provide students with hands-on experience applying theory and techniques to datasets spanning human and environmental geography using applications including crime, forestry, health, environmental change, and housing. Focus will be placed on methods for analysing spatial point patterns, spatial autocorrelation, and spatial modelling. 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>			
Pre-requisite(s):	Before taking this module you must pass GG3201		
Learning and teaching methods of delivery:	Weekly contact: 2 hours lectures (x 9 weeks), 2-hour practical classes (x 6 weeks), 2-hour IT Lab Help sessions (x 3 weeks)		
	Scheduled learning: 36 hours	Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework project = 100%		
Re-assessment pattern:	No Re-assessment available		
Module coordinator:	Dr J A Long		
Module teaching staff:	Dr J Long, Dr U Demsar		

School of History

History (HI) modules

HI4101 Communication in History			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme.		
Planned timetable:	To be arranged.		
This module is a part of 'Communication and Teaching in Arts and Humanities' in which students gain substantial experience of a working environment. This component offers the opportunity to further develop an area of interest in communicating themes in History to contemporary contexts. It is available only to participants in the placement module. Students will normally take this module in Semester 1 but, with the permission of the Director of Teaching, it may be taken in Semester 2.			
Co-requisite(s):	You must also take ID4002		
Learning and teaching methods of delivery:	Weekly contact: Fortnightly tutorials.		
	Scheduled learning: 6 hours	Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	4,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)		
Module coordinator:	Dr M A McLean		

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HI4794 Joint Dissertation (30cr)			
SCOTCAT Credits:	30	SCQF Level 10	Semester
			Both
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.		
Planned timetable:	To be arranged.		
	<p>This module is designed to encourage the development of skills of historical analysis through the concentrated study of a topic agreed between the student and two appropriate members of staff in different disciplines and Schools (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the candidate if it builds on previous work (though it must break new ground and use substantially new research). The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation. The outcome is assessed on the quality of the library research and analysis shown in the written submission (an extended essay up to 8,000 words - 75%) and on the oral presentation of the findings to other students and two tutors (25%). (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>		
Pre-requisite(s):	Students must have a letter of agreement.		
Anti-requisite(s)	Cannot take more than 30 credits in other dissertation/project modules		
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.		
	Scheduled learning: 8 hours	Guided independent study: 292 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%		
	As used by St Andrews: As per Letter of Agreement.		
Re-assessment pattern:	As per Letter of Agreement.		
Module teaching staff:	TBC Module coordinator(s): As per Letter of Agreement		

HI4997 Recording the Past				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme.			
Planned timetable:	To be arranged.			
With the consent of the module coordinator and of the Chair of the Degree Committee, candidates may submit a public history project in the form of podcast(s), video documentary, blog or other approved 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. 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 product. The project may build on work already done in another module, but it must break new ground and use substantially new research. Since training in multimedia techniques will be offered, the student need not previously possess experience in the medium in which he/she chooses to present the project.				
Anti-requisite(s)	You cannot take this module if you take HI4998 or take HI4999 or take ME4998 or take CL4999			
Learning and teaching methods of delivery:	Weekly contact: Weekly seminars, fieldwork and film/video viewing.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	5,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)			
Module coordinator:	Prof G J De Groot			
Module teaching staff:	Prof G DeGroot			

HI4998 Honours Project in History				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme.			
Planned timetable:	To be arranged.			
A series of compulsory fortnightly meetings forms an integral part of the work. These group meetings are to discuss general approaches and difficulties of researching, preparing and presenting the outcome of the Project. You will be assigned to small groups for a series of one-hour meetings over the semester. You will meet with your assigned tutor in week 1 of the semester to outline what you might do for the Project. You will produce an abstract of your Project to be presented at the next meeting (week 3) and an indicative bibliography (week 5). In week 8 you will submit a structural outline of the project, and give a presentation in week 9. The final Project will be submitted at the end of week 11.				
Anti-requisite(s)	You cannot take this module if you take HI4997 or take HI4999			
Learning and teaching methods of 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 coordinator:	Dr J E Rose			

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HI4999 Honours Dissertation in History			
SCOTCAT Credits:	30	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>The dissertation must consist of between 10,000 and 12,000 words of English prose on a topic agreed between the student and an appropriate member of staff (who acts as supervisor). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the candidate if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisor in order to determine that the student has access to sources as well as a clear plan of preparation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Anti-requisite(s)	In taking this module you cannot take HI4997 or take HI4998 or take ME4998 or take CL4999 or a dissertation in another subject		
Learning and teaching methods of delivery:	<p>Weekly contact: ?In week 12 of Semester 1, for a preliminary organisational meeting with confirmed supervisor. ?In week 0 or 1 of Semester 2, to discuss the overall progress and plan of further work, and the dissertation plan and indicative bibliography (which must be submitted by Friday of week 2). ?In an informal (but compulsory) presentation of the topic and progress so far, to a staff member and between two and four other students, in week 4. ?To give detailed feedback on draft material (which must be submitted by Friday of week 5). ?In up to three further meetings arranged at the student's request during the semester.</p>		
	Scheduled learning: 8 hours	Guided independent study: 292 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%</p>		
	<p>As used by St Andrews: Dissertation = 100%</p>		
Re-assessment pattern:	5,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)		
Module coordinator:	Dr C A McGladdery		

Mediaeval History (ME) modules

ME3105 Archaeological Methods			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module explains modern archaeological methods, introducing the techniques available to researchers for investigating archaeological sites. The module will demonstrate how successful projects combine a range of disciplines, including archival research, scientific analysis and the digital recording techniques. The module will use real examples from local sites in and around St Andrews, and will combine classroom learning and practical sessions. The aim is to make students familiar with techniques and methods that are applicable around the world. Students will learn how to plan and organise archaeological projects, preparing them to pose research questions and develop projects that employ the appropriate techniques.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}		
Learning and teaching methods of delivery:	Weekly contact: 1 seminar (x 11 weeks), 1 practical class (x 6 weeks)		
	Scheduled learning: 28 hours	Guided independent study: 275 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Mr T C Dawson		
Module teaching staff:	Mr T Dawson, Miss J Humbly, Ms E Allsop		

ME3142 The Castle in Mediaeval Scotland (1100 - 1550)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
Castles remain the most impressive physical reminders of Scotland's mediaeval past. The great royal fortresses of Edinburgh and Stirling provide symbols of Scotland's past nationhood; the ruined walls and towers of baronial castles demonstrate the power and pretensions of the great lords of the middle ages. As military strongholds, centres of government and lordship, and residences of royal and aristocratic households, these castles give access to the main themes of medieval Scottish politics and society. This module will study the castle in its context. The changing needs of military and domestic architecture in response to the needs of war and peace, the siting of castles and their use in wider structures of authority from Lothian and the marches to the Hebrides, and their role in warfare, as places of refuge and as bases for garrisons, will all be considered. Architectural and archaeological evidence will be combined with descriptions of the Scottish castle in chronicles and record sources to obtain a full understanding of the buildings and their functions.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Prof M H Brown		
Module teaching staff:	Professor M. Brown		

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ME3162 The Mediaeval Castle			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}		
Anti-requisite(s)	You cannot take this module if you take ME3411		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr A D Stewart		

ME3163 The Imperial City: Byzantine and Ottoman Constantinople			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}		
Anti-requisite(s)	You cannot take this module if you take ME3218 or take ME4854		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr D Kastritsis		

ME3206 Inclusion and Exclusion in the Middle Ages

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This option starts with a study of reactions to heresy in the medieval west and then compares this with the treatment of other social marginals.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof F E Andrews			

ME3214 Italian City States: from Communes to Signorie c. 1000- c. 1350

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
The aim of this module is to explore the changing nature and impact of urban life in a moment of great creativity in Italy, tracing the transition from the first appearance of the Communes to government by individual lords or 'Signorie'. Topics covered will include: urban growth and the origins of the Commune, the character of Communal government, expansion into the Contado, the development of faction, the first despots, civil life, guilds and merchants, patron saints and confraternities, violence and civil disorder. The reading will be from primary sources in translation whenever possible.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof F E Andrews			
Module teaching staff:	Prof F Andrews			

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ME3223 The Rise and Fall of the Carolingian Empire, c.750 - 900			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
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>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module teaching staff:	Dr R Cimino		

ME3232 Queens and Queenship in Early Mediaeval Europe			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>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.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module teaching staff:	D R Cimino		

ME3236 Soldiers and Saints in Late Roman Gaul				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module examines the transformation of Gaul, the transalpine portion of the Roman Empire, in the period from c.379 to 455. This period saw the extensive Christianisation of the region, including the introduction of monastic ideas from the near east. It also saw political fragmentation including the earliest establishment of barbarian kingdoms within the Roman Empire. Goths, Franks and Huns will all feature, as will the earliest western hagiography, Sulpicius Severus's Vita Martini, and the letters of St Patrick. Students will be encouraged to consider the contesting explanations of why a society which had retained considerable stability for four centuries broke down within a single generation.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A D Woolf			
Module teaching staff:	Dr A Woolf			

ME3237 Legal Cultures in Late Antiquity				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Late Antiquity (fourth to early seventh centuries CE) is a historical period marked by rapid and striking political, social, religious and legal change. This module examines the 'legal cultures' that developed during this formative era. Students will learn how to use and understand formal legal sources - including Roman (imperial), Rabbinic, Sasanian and 'barbarian' codes and expert legal literature - as historical sources, anchored in specific situations and contexts. We will also explore curse tablets and prayers for justice from the 'under-policed' worlds of Britain and Iberia, as well as the establishment of 'universal' Christian conciliar canons and monastic rules. What distinguishes law and legal practice in the manuscript cultures of Late Antiquity from law and legal practice in mediaeval or modern societies?				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof C Humfress			

History - Honours Level - 2018/9 - August - 2018

ME3309 Mediaeval St Andrews			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
St Andrews was of unique importance in the Middle Ages. It was the principal centre of the Scottish church, a pilgrim site of international significance, and the home of the first university in Scotland (and third in Britain after Oxford and Cambridge). It is also an excellent example of a mediaeval town. This module will explore the history of mediaeval St Andrews and consider this in relation to developments across mediaeval Europe. The module will draw on written historical sources, including those held by the Library's Special Collections, and utilise the outstanding local access to relevant material culture.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module teaching staff:	Dr C McGladdery		

ME3313 Early Irish Society (c. 600 - 800)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module will introduce students to the social and economic life of Ireland in the seventh and eighth centuries. The principle primary material used will be law codes dating from the decades around AD 700. Ireland in this period was an entirely rural society supporting neither towns nor a cash economy yet it has provided us with perhaps as much textual evidence related to social organisation as anywhere in Europe in this period. Students will be introduced to this material, supported by literary and archaeological evidence, and encouraged to engage with a barbarian society on its own terms rather than through the eyes of others.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour per week and 1 further hour of essay feedback over the semester.		
	Scheduled learning: 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:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr A D Woolf		
Module teaching staff:	Dr A Woolf		

ME3314 Times of trouble: civil conflicts in the later fifteenth century

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>Between the 1450s and 1480s many European realms were beset by periods of internal conflict which developed into open civil war. The best-known of these are the so-called Wars of the Roses in the lands of the English crown, but similar periods of domestic unrest occurred in Scotland, France, the Low Countries and the Spanish realms. This module examines the causes of political dissent and conflict: dynastic, social, political and economic and their effects on the developing authority of royal governments. The roles and rights of great noble houses in relation to the crown and to their own regional hegemonies are also examined as is the use of political language, of royal sovereignty and of resistance to misrule, in an era of contested legitimacy. This is a study of political crises and civil warfare which focuses primarily on the lands of the English and Scottish crowns but also examines common and distinct themes from other fifteenth-century realms.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
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:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof M H Brown			
Module teaching staff:	Prof M Brown			

ME3423 Justifying Mediaeval Warfare

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>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.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%</p> <p>As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%</p>			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr R W S C Cox			
Module teaching staff:	Dr R Cox			

History - Honours Level - 2018/9 - August - 2018

ME3425 The Age of Revolt (1250 - 1450)

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module focuses on rebellions, revolts, and social movements in Western and Central Europe during the long fourteenth century, a period characterised as the 'golden age of revolt'. During this period, there were dozens - perhaps even hundreds - of uprising in both towns and countryside, which challenged the established order and which led to social and political changes that would endure through the early modern period. Focusing on specific rebellions, the module will examine the economic, political, and cultural causes of revolt. Topics to be considered include identity and deviance, theories of resistance, and discourses of power.</p>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: 1-hour Written Examination (Class Test) = 20%, Coursework = 80%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J M Firnhaber-Baker			

ME3426 Women and Gender in the Later Middle Ages

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module focuses on women's lives in Europe from about 1150 to about 1550. When we think about women in this period, we often assume that they had few avenues for self-expression, public recognition, or even personal happiness. In this course we will look at the social, cultural, and legal boundaries that confronted women, but our major focus will be on the lives that women were able to build despite - or even because - of these barriers. We will look at women across the social spectrum - from prostitutes to queens - and from all parts of Western Europe. We will focus less on images of women than on their actual lives. Our emphasis will be on ordinary women, but in each part of the course, we will also look at an individual or group of women to discuss how the section's themes played out on the micro level.</p>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 15%, Coursework = 55%			
	As used by St Andrews: 2-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J M Firnhaber-Baker			

ME3608 Eastern Approaches: Early Mediaeval Armenia c. 500 - 750			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module explores Armenian political, social and cultural history in the early mediaeval period. It examines Armenian engagement with the great powers of the day, Rome and Persia as well as Armenian responses to the dramatic reconfiguring of the Near East in the seventh century, when the old order was swept away and replaced by a dynamic Islamic polity. Issues of identity, orthodoxy and heroic history will be studied through a selection of translated extracts from sources originally in Armenian, Greek and Arabic. These sources will be assessed critically and in conjunction with numismatic and epigraphic evidence. This module offers an opportunity to study an early mediaeval Christian society on the eastern fringe of the Roman world and invites comparison with the post-Roman West.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr T W Greenwood		

ME3611 The Eastern Roman Empire in the Reign of Justinian 527 - 565			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}		
Anti-requisite(s)	You cannot take this module if you take ME3228		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr T W Greenwood		

History - Honours Level - 2018/9 - August - 2018

ME3613 Arabs, Persians and Turks in the Early Islamic East in the Age of the Caliphates (600 - 1200)

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
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 the eastern Islamic world - the regions today comprising Iraq, Iran, and Central Asia - was transformed into a predominantly Muslim society under the broad hegemony of the Caliphs of Baghdad. Indeed, in many ways this region became the cultural, economic and political heart of the Islamic world. This course studies how Iranian and Islamic identity interacted and fused as Arabs migrated and intermarried with local ethnically Iranian populations, 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 the region from the eleventh century. Political, cultural and religious change in this formative period of Islamic history will be studied through both literary and material primary sources such as coins and inscriptions.</p>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002} or pass at least 60 credits from {AN1002, AN2002, AN2003, CL2004}			
Learning and teaching methods of 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 coordinator:	Prof A C S Peacock			
Module teaching staff:	Professor A Peacock			

ME3616 Missionaries, Assassins and State-builders: Militant Shi'ism in the Mediaeval Muslim World

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This course 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>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof C Hillenbrand			
Module teaching staff:	Professor C Hillenbrand			

ME3617 The Mamluks And The Mamluk Sultanate

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<p>The module will examine the mamluk phenomenon, looking at the development of the institution. It will then consider the mamluks' rise to power in Egypt and Syria, in the face of assaults by crusaders and Mongols, and their formation of a powerful empire, and what has been termed a 'Pax Mamlukica' in the region. The structures of the Sultanate will be examined, as well as the society over which they ruled. This was a dynamic period, which witnessed significant political, military, economic and social developments; it also saw the production of numerous works of scholarship and the transformation of the urban landscape of Cairo and other cities.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%</p> <p>As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%</p>			
Re-assessment pattern:	4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A D Stewart			

ME4712 'A Century of Iron': Rulers, Warriors and Scholars in Tenth-Century England and Germany

SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of Honours Programme			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	<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>			
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%</p> <p>As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%</p>			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof S MacLean			

History - Honours Level - 2018/9 - August - 2018

ME4750 Conflict and Cohabitation: Northern Britain c. 550 - 750				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	TBC			
<p>In the decades around CE700 a number of northern writers, notably Adomnán of Iona (†704) and Bede of Monkwearmouth-Jarrow (†735), looked back on the history of their region. Their historical horizons, for different reasons, lay in the middle of the sixth century. This module looks at the way their world was created both in terms of the rise of the Christian Church as a force to be reckoned with and in the establishment of powerful political hegemonies. Central to the module will be an attempt to grasp the interaction between the different peoples, Britons, Picts, Angles and Gaels.</p>				
Learning and teaching methods of delivery:	Weekly contact: One 3-hour Seminar per week			
	Scheduled learning: 66 hours		Guided independent study: 528 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, Two 3-hour Written Examinations = 60%			
Re-assessment pattern:	Current Coursework = 40%, Two 3-hour Written Examinations = 60%			
Module coordinator:	Dr A D Woolf			
Module teaching staff:	Dr A Woolf			

ME4752 Robert Bruce and Edward II: Kings, Nobles and Communities in the British Isles (1306 - 1346)				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof M H Brown			
Module teaching staff:	Prof M Brown			

ME4807 The Early Mendicants: Francis, Clare and Dominic (c. 1180 - c. 1270)				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	10.00 am - 1.00 pm Wed			
This module will use a rare combination of written and visual sources to examine and compare the personalities, careers and impact of Saints Francis, Clare and Dominic and the Orders they founded. Themes to be considered will include the influence of their immediate predecessors and contemporaries in the 'evangelical awakening', the problems posed by the sources for the lives of the saints themselves, poverty, mendicancy and itinerant preaching, the impact of their cults on art and architecture, institutional developments and relations with the papacy, the secular church, the inquisition and the universities.				
Learning and teaching methods of delivery:	Weekly contact: See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof F E Andrews			

ME4815 France from Philip Augustus to Philip the Fair, c.1180-1315				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module focuses on France from the accession of Philip II Augustus in 1180 to the aftermath of Philip IV the Fair's death in the 1310s. Over the course of this long century, the Capetian monarchy developed from an anaemic personal kingship restricted to the Ile-de-France into a bureaucratically administered government that covered much of modern France.				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour meeting.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 9%, Coursework = 31%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J M Firnhaber-Baker			

History - Honours Level - 2018/9 - August - 2018

ME4852 From Leo VI to Basil II: Byzantium in the Tenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The tenth century witnessed the political and cultural revival of Byzantium following two centuries of dour military struggle, impoverishment and introspection. Byzantium took advantage of a fragmented Muslim polity to push eastwards, seizing territory and attracting Armenian, Arab and Kurdish clients into its orbit. Byzantium also sought to resolve its relationship with an expanding Bulgarian state, uncomfortably close to Constantinople both geographically and ideologically. In Semester 1, this module will trace the interaction of Byzantium with its immediate neighbors and distant powers through a wide range of translated extracts and material evidence. There were acute differences of opinion over the direction and rate of expansion, prompting civil war although never secession. In semester 2 we shall examine the economic and social foundations of Byzantium, the role of the court in Constantinople and the workings of the administration. The revival in literary, artistic and architectural activity will be placed against this backdrop.</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar plus 1 office hour and occasional practicals and lectures.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr T W Greenwood			
Module teaching staff:	Dr T Greenwood			

ME4855 Crusaders, Mongols and Mamluks: West and East in the Mid-Thirteenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will consider the range of interactions between the Latin West and the powers and cultures of the Near East and beyond, in the period will roughly between the first two Councils of Lyons, 1245-74, both of which dealt with crusading to the Levant and with matters relating to the Mongols: initially their threat and latterly the opportunities for alliance. The module will examine the crusades of the Louis IX, in their wider context; the arrival of the Mongols in the West and the creation of Mongol states there; and the beginnings of the Mongol-Mamluk conflict and of attempts to create an Ilkhanid-Latin alliance. We will look in some depth at a variety of sources, especially focusing on the account of Louis IX's crusade by John of Joinville, and the accounts of two Franciscan travelers in the Mongol Empire, John of Plano Carpini and William of Rubruck.</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 6%, Coursework = 34%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr A D Stewart			

ME4857 The Mongol Empire and the Islamic World				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Wednesday 09:30 - 12:30			
The nomadic Mongols in the thirteenth century founded a vast empire that stretched at its height from Europe to Korea. The impact of the Mongols was felt across the known world, but particularly in the Islamic world, where the Mongol invasions precipitated a religious and political crisis that forever altered the Middle East. This module investigates how this empire came into being, its sources and history between c. 1200 and 1370, the emergence of new Mongol states after the collapse of the unified empire, and gives particular attention to understanding the significance of the Mongol conquests for the Muslim world, although other regions are also covered, such as China, where Islam was spread through Mongol converts. The course examines Mongol history through primary sources in translation along with introducing classical Mongol culture and language.				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar. Optional 2 hour office hour			
	Scheduled learning: 66 hours		Guided independent study: 528 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof A C S Peacock			
Module teaching staff:	Prof A Peacock			

ME4998 Honours Dissertation in Mediaeval Archaeology				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Specialised dissertation of 12,000 words on a topic in Mediaeval Archaeology for Honours students in the Mediaeval History and Archaeology degree. The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the candidate if it builds on previous work. The topic and range of sources should be chosen in consultation with a member of staff (in most cases the supervisor), in order to determine that the student has access to sources as well as a clear plan of preparation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Anti-requisite(s)	You cannot take this module if you take HI4997 or take HI4998 or take HI4999			
Learning and teaching methods of delivery:	Weekly contact: ò In week 12 of Semester 1, for a preliminary organisational meeting with confirmed supervisor. ò In week 0 or 1 of Semester 2, to discuss the overall progress and plan of further work, and the dissertation plan and indicative bibliography (which must be submitted by Friday of week 2). ò In an informal (but compulsory) presentation of the topic and progress so far, to a staff member and between two and four other students, in week 4. ò To give detailed feedback on draft material (which must be submitted by Friday of week 5). ò In up to three further meetings arranged at the student's request during the semester.			
	Scheduled learning: 8 hours		Guided independent study: 292 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	5,000-word essay (it can be on the same general subject as the original project, but not addressing the same question)			
Module coordinator:	Dr A D Woolf			

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Modern History (MO) modules

MO3005 The Early Reformation in Europe (1517 - 1555)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
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 1517-1555. 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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 40%, Coursework = 60%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr M A McLean		
Module teaching staff:	Dr M McLean		

MO3019 The Life of the Mind: Key Texts in European Thought (1512 - 1697)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3049		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr D W Allan		
Module teaching staff:	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:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This course 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 course will also address the question of an emerging American culture and identity and its relationship to metropolitan-colonial interaction.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr E F K Hart			
Module teaching staff:	Dr E Hart			

MO3026 Art and Piety in Western Europe 1400 - 1750

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
What can visual evidence tell us about religious belief? This course will begin by exploring the use of religious images during the late-medieval period. In the sixteenth century Protestant reformers questioned the value of religious art, and in parts of Europe there was extensive iconoclasm. The course will consider the motives of the iconoclasts and the forms that their actions took. We will also look at Catholic attempts to reform religious art and at the flowering of visual piety in the wake of the Council of Trent. Seminar classes and student assignments will make extensive use of pictures as well as texts.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002} or pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof B M Heal			
Module teaching staff:	Dr B Heal			

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MO3029 The Northern Renaissance			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
The Black Death, the Great Schism, and Hundred Years' War transformed Northern Europe at the end of the Middle Ages. New and dynamic political communities emerged - such as the Low Countries, the Holy Roman Empire, Burgundy, France, and England - which, although connected to the Mediterranean world by trade and culture, expressed their relationship to the Classical world in very different terms. This module will explore the distinctive nature of Northern Europe through themes such as the rise of universities, lay religious movements, court and civic patronage, Christian humanism and the Reformation. Students will read texts by Erasmus and Thomas More and examine the art of van Eyck, Durer, Holbein and Cranach.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr M A McLean		
Module teaching staff:	Dr M McLean		

MO3033 Europeans in Asia in the Early Modern Period			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module considers the exploration and exploitation of the East Indies in the early modern period. From the earliest voyages of discovery by Portuguese explorers in the late fifteenth century, the course traces the development of early trading European trading networks that initially integrated with existing Arab and Asian commercial structures and the expanding Mogul empire. From these mutually beneficial exchanges the course follows the conflict that emerged between the contesting monopoly companies that led to the eventual colonisation of most of South East Asia by European powers. Viewed from the perspectives of the various concerns, the course poses questions relating to the politics, religions and cultural interaction of this important geo-political region.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar and 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Prof S W Murdoch		
Module teaching staff:	Professor S Murdoch		

MO3038 War and the State in the Era of the Military Revolution (1550 - 1730)				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof G R Rowlands			
Module teaching staff:	Professor 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:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores life and death in England during a period of profound social, political, economic, religious and legal change. Topics which may be covered include family and community, social relations and local government, poverty and its relief, courtship and marriage, young and old, male and female, population and its determinants, the body and health, and death. Using printed or online primary source material and secondary reading will enable students critically to summarise and evaluate scholarly arguments, assess the nature and value of historical debate, and gain insights into the long-lost material environment and mental world of this fascinating period.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Anti-requisite(s)	You cannot take this module if you take MO3015			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof R A Houston			

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MO3041 Culture and Mentalities in Early Modern England (c. 1500 - 1800)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>This module explores aspects of English life, behaviour and attitudes in a period of profound social, political, economic, religious and legal change. Topics which may be covered include 'alternative' belief (inc. astrology and witchcraft), technology and the rise of science, environment, local, regional, and national identities, consumption and the world of goods, recreation and leisure, education, literacy and communication, time, space and work, individualism and corporatism, risk and probability, crime and violence, and patterns of punishment. The course has an historiographical component, exploring why and how historians have written about the topics it contains. Using printed or online primary source material and secondary reading will enable students critically to summarise and evaluate scholarly arguments, assess the nature and value of historical debate, and gain insights into the long-lost mental world of this fascinating period.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3015		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Prof R A Houston		

MO3043 Early Modern Rome (1300 - 1667)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>This module introduces students to the city considered the centre of the Western World and the heart of Christianity and later, Catholicism during the Reformation period. It examines the changing city as well as its changing image and propaganda during a period when its primacy and importance was constantly and violently challenged and reasserted as a symbol of civilisation.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002} or pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 13%, Coursework = 47%		
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr E D Michelson		
Module teaching staff:	Dr E Michelson		

MO3044 Topics in Renaissance Venice			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002} or pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr E N Maglaque		
Module teaching staff:	Dr E Maglaque		

MO3047 The Tudors: Power and Piety in Sixteenth-Century England			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3045 or take MO3908		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%		
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr J E Rose		
Module teaching staff:	Dr J Rose		

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MO3048 Witches and Witch-hunting in Early Modern Europe			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Prof B M Heal		
Module teaching staff:	Dr B Heal		

MO3049 Political Thought From Machiavelli to Tocqueville			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3019		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%		
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module teaching staff:	TBC		

MO3080 Nomadic Heritage and Persianate Culture: the Iranian world from Timurids to the Safavids (1370-1722)

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002} or pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof A C S Peacock			
Module teaching staff:	Professor A Peacock			

MO3081 The Ottoman Empire 1300 - 1700

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module studies the development of the early modern Ottoman Empire from its rise and definitive establishment in the late Middle Ages until the end of the seventeenth century. In addition to knowledge of key events and institutions, the module aims to provide an introduction to the culture and social composition of the empire in the period under examination. Specific themes include Ottoman expansion in Europe and the Middle East; crisis and change; centralisation and its discontents; relations with neighbours, such as Safavid Iran, the Habsburg Empire, and the Portuguese in the Indian Ocean; and Ottoman attitudes toward the empire and wider world.</p>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002} or pass at least 60 credits from {ME1003, ME1006, ME2003, HI2001, MH2002}			
Anti-requisite(s)	You cannot take this module if you take ME3610			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr D Kastritsis			

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MO3110 African Americans in Slavery and Freedom, 1620 - 1865			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
An exploration of the experiences of Africans in America from the beginnings of slavery until the American Civil War. The course 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, and the world of America's slave owners.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr E F K Hart		
Module teaching staff:	Dr E Hart		

MO3113 Stuart Rule and Revolution (1603 - 1689)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
In the seventeenth century, the British Isles witnessed widespread instability with two monarchs being overthrown; one executed, and one sent into exile after only three years on the throne. Abhorrent policies including novel forms of taxation and unpopular foreign warfare, implemented by court favourites and flawed monarchs all contributed to the breakdown of government. Religious tensions between groups with widely differing visions of the church further fuelled conflict, as did competing ideologies of government. The Stuart century also included some novel experiences, such as the first period of religious toleration in the 1650s and the growth of party culture and the 'public sphere' from the 1670s onwards. This module examines these developments, evaluating competing explanations for the Civil Wars of the 1640s and Revolution of 1688, using a variety of historical approaches and some contemporary documents. As the module includes awareness of British and Irish as well as English history, it complements and provides context for the latter part of module MO3166 which focuses more sharply on debates on British union.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3045		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%		
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr J E Rose		
Module teaching staff:	Dr J Rose		

MO3214 The Decline and Fall of the French Old Regime (1715-1789)				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Eighteenth-century France was the cultural leader of Europe, but mounting domestic difficulties made its efforts to remain the arbiter of power on the continent increasingly difficult to sustain. At home the absolute monarchy had great difficulty in adjusting to changing political, social and cultural expectations that would eventually engulf the Bourbon state as its international adventures produced financial bankruptcy. This module will explore France in the reigns of Louis XV and Louis XVI in order to understand the nature of old regime state and society, and the difficulties under which its people and rulers laboured. It will also give students the opportunity to engage with one of the most controversial subjects in European history: the origins of the French Revolution.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof G R Rowlands			
Module teaching staff:	Prof G Rowlands			

MO3222 French Fancy and Cool Britannia? Franco-British Cultural Relations from the Seven Years' War to the French Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr S Easterby-Smith			

History - Honours Level - 2018/9 - August - 2018

MO3263 British Culture in the Eighteenth Century				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr D W Allan			
Module teaching staff:	Dr D Allan			

MO3280 Persia in the 18th Century, 1722-1834 (Age of the Warlords)				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The purpose of this module is to look at a critical if under appreciated period of Persian (Iranian) history between the fall of the Safavid Empire in 1722 and the consolidation of the Qajar state in 1834. This was a period of dynamic change and transformation characterised by the rise and fall of competing dynasts who ruthlessly sought to re-establish the imperial legacy of the Safavids under the own particular leadership. This protracted period of turmoil was to have a lasting impact on the character of Persian state and society which can be felt to this day particularly with respect to the changes in the cultural and religious landscape of the country. The course concludes with an assessment of the early Qajar state and the impact of European intervention, in particular Persia's two wars with the expanding Russian empire which were ultimately to result in the loss of great power status.</p>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Anti-requisite(s)	You cannot take this module if you take MO3215			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 40%, 3-hour Written Examination = 60%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof A M Ansari			
Module teaching staff:	Professor Ali Ansari			

MO3302 Imperial Russia 1815 - 1917			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
The decline of Imperial Russia is analysed from the defeat of Napoleon, through attempts at reform, the rise of the Bolsheviks and other opposition movements, to the collapse of Tsarism in February 1917. In addition to the study of underlying political, economic and social factors, intellectual and ideological developments are examined. Aspects of foreign policy are also considered.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr F M Nethercott		
Module teaching staff:	Dr F Nethercott		

MO3314 History of Environmentalism: The Politics of Nature in the Western World (c. 1800 to Present)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr J F M Clark		
Module teaching staff:	Dr J Clark		

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MO3318 Revolutions, Nationalism and Reaction: 1848-1849 in the German Lands				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Contemporaries called it the 'Crazy Year'. After decades of governmental oppression, the revolutions of 1848 threw Germany into an intoxicating period of liberty and change. German society underwent a process of political mobilisation. Peasants, craftsmen, workers, liberals, radicals, nationalists, Catholics, Protestants, Jews, even women and proto-imperialists set about addressing their grievances. In order to establish new rights and institutions they utilised a wide spectrum of political means, ranging from riots to elected constituent assemblies. Their objectives were similarly heterogeneous. Peasants near Magdeburg demanded more pasture for their geese; the deputies of the Frankfurt Parliament tried to create a constitutional nation state. This module will try to draw an analytical portrait of the origins, events and consequences of seventeen dazzling, dramatic, momentous months in German history.</p>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof F L Muller			
Module teaching staff:	Prof F Muller			

MO3319 Media and Politics in Modern Britain, 1850-1939				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module will examine the role of the media - primarily the press, news agencies and broadcasting - 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 and later the BBC, 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, listening, 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>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr C Kaul			

MO3320 Imperialism and Nationalism: The British Empire in India 1857 - 1947				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module will focus on the Jewel in the Crown - Britain's empire in India. The aim is to provide both an overall view and understanding of the development of the Raj as well as more in-depth knowledge and appreciation of select key issues, events and personalities. The Years of direct British rule from 1858 to Independence in 1947 with the partition of the sub-continent into India and Pakistan, will be studied through an examination of rebellion and revolt in the mid 19th century, consolidation of imperial power through strategies of coercion and collaboration, the rise and growth of an Indian nationalist movement from the late 19th century; the impact of two World Wars, economic costs and benefits of empire, the role of Gandhi and the ideology of non-violent protest, religion and politics - the growth of Muslim separatism and the trauma and bloodshed of Partition.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr C Kaul			

MO3329 The Kaiser: Aspects of Emperor Wilhelm II (1859 - 1941)				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Revered as the 'modern central person' or described as simply insane, Germany's Kaiser Wilhelm II (1859 - 1941) played a central and highly visible role on the European political stage. Over the last 25 years the fascination this mercurial and deeply problematic ruler held for his contemporaries has been echoed by a large body of sophisticated historical scholarship. Focusing on Wilhelm's personality and his politics as well as on the context and structure of his reign, historians have explored the importance of key issues such as psychological trauma, disease, media, publicity, scandal, monarchical networks, modern kingship and political culture. This module will examine selected aspects of the life of Wilhelm II in order to arrive at an analytical evaluation of this individual and his impact as well as of the wider political and cultural world which he inhabited.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 16%, Coursework = 24%			
	As used by St Andrews: 12-hour Take-Home Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof F L Muller			

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MO3334 Nature and Society in Victorian Britain			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
For Romantic poets and natural scientists, Christian missionaries and package tourists, the natural world was a source of inspiration and fascination. This module examines the ways the Victorians encountered and interpreted the natural world. Key themes include: natural theology, Romanticism, imperial exploration and discovery, the growth of tourism and the emergence of science as an expert profession. Students will use contemporary documents to examine the ways in which different social and professional groups constructed and represented the natural world according to their own interests.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, 1 hour online discussion, and 1 office hour.		
	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:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Prof A K Fyfe		

MO3335 The Japanese Empire and its Aftermath (1873 - 1952)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
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 through to consideration of the early postwar aftermath of the 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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 15%, Coursework = 45%		
	As used by St Andrews: Take-Home Examination = 40%, Coursework = 60%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr K M Lawson		
Module teaching staff:	Dr K Lawson		

MO3338 Disease and the Environment (c. 1500 - 2000)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
	<p>Before they are members of political and religious groupings, humans are biological entities. As such, throughout history humans have had to devise complex strategies to cope with fundamental biological factors. Focusing primarily upon an Anglo-American context, this module examines the manner in which sickness and death have shaped human history - both biologically and culturally - over the past 500 years. Consideration of patients' and practitioners' expectations, and of the changing meanings of cure, treatment, and care, encourages students to appreciate changing attitudes to health, hygiene, healing and illness within the social history of medicine. Moreover, through an examination of medical practitioners, hospitals, quarantine, inoculation, imperialism, urbanisation, and industrialisation, students will gain an appreciation of the historical relationships between the environment and disease.</p>		
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3023 or take MO3909		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr J F M Clark		

MO3346 Politics, Culture and Society in the French Revolution (1789-1815)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
	<p>The tumultuous events of the French revolution marked a decisive moment in the history of modern France, causing a radical restructuring of society, politics and culture. The Revolution brought about the downfall of the monarchy, the aristocracy and religious institutions. It also had significant and far-reaching social and cultural effects, transforming gender roles and familial relations, and inaugurating radical transitions in France's cultural, scientific and intellectual life. This course studies the political and cultural impact of the Revolution in France and its colonies between 1789 and 1815. We begin by discussing the major events of 1789-93 and the transformations in the social hierarchy, religion and monarchy, gender relations, and even of the concept of time itself. We then examine the global spread of revolutionary ideals and how these were transmuted in the face of political violence under Robespierre and military expansion under Napoleon.</p>		
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3221		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr S Easterby-Smith		

History - Honours Level - 2018/9 - August - 2018

MO3351 Doing and Practicing Transnational and Global History in the Late Modern World

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	http://www.st-andrews.ac.uk/history/infoug/ugtimetable.html			
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. The module provides an entry point to the field of transnational history, its approaches and tools. It is deliberately designed to be open and flexible as it seeks to allow students to take ownership of the content and the cases to be studied. Following an introduction to the field along a series of text based seminars, the module is mainly designed around a number of workshops and training sessions that will equip students with the skills to analyse, map and visualise transnational histories - that is doing and practicing them.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar (x 8 weeks), 2-hour practical classes (x 3 weeks), 1 office hour (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework (including presentation) = 100%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr B Struck			

MO3353 The Rise of the Nation State in Central Europe (1810 - 1923)

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
The study of nationalism mainly stems from Central Europe. But, unlike elsewhere in the world where usually states overhauled their populations into nations, in Central Europe languages were equated with nations. As a result the extant states had to be destroyed to make space for ethnolinguistic nation-states. Usually, the classics of the study of nationalism open their analyses with the 'unification' of the Italian and German nation-states as an ethnolinguistic reaction to French revolutionary nationalism. However, the region's first nation-states were founded in the Ottoman Balkans on an ethnoreligious basis, which only much later was either combined with or replaced with language as the basis of nationalism, in emulation of the German and Italian nationalisms. This novel Central European norm of nations speaking their unique languages and living in their own nation-states rapidly delegitimized the remaining non-national polities, and made non-national populations into 'foreigners'.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Anti-requisite(s)	You cannot take this module if you take MO3333			
Learning and teaching methods of delivery:	Weekly contact: 2 seminars (x 11 weeks), 1 surgery hour (x 11 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr T D Kamusella			

MO3354 Rethinking the World in East Asia 1850s - 1990s			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	http://www.st-andrews.ac.uk/history/infoug/ugtimetable.html		
This intellectual history of late modern East Asia explores the ways social, political and religious movements, as well as the evolving ideas of key individuals in Korea, Japan, and China hoped to transform or reimagine the social and political order, especially at a global scale. The module also highlights the highly creative ways that religious and philosophical traditions of the region informed and enriched the diverse range of imaginative projects for social and political reform. Literary and visual sources as well as philosophical texts, debates, and the political tracts of various movements will be at the core of the module and offer opportunities to explore the multiplicity of inspirations and dynamic nature of the intellectual history of the region that challenges some common depictions of the relationship between tradition and modernity, as well as assumptions about the simplistic adaptation of Western ideologies in East Asian history.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr K M Lawson		
Module teaching staff:	Dr K Lawson		

MO3365 Nationalism and Unionism in Modern Scotland			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module provides an examination of the phenomena of nationalism and unionism in modern Scottish history. It will explore the nature of the Union-state created in 1707 and the varieties of unionist ideology which sustained it, but it will also look at the emergence of a nationalist response in Scotland, which also took various forms ranging from Home Rule sentiment and reformist imperialism to the desire for total independence or 'independence in Europe'. A particular feature of the module will be the way it integrates the micro-politics of Fife and St Andrews in particular (including the careers of Thomas Chalmers and Douglas Young; by-elections in Fife; and the role of St Andrews in the rise of Thatcherism) into broader themes in the history of Scotland. Other issues to be tackled will include republicanism and the monarchy, religious tensions, the Constitution, and the relationships of Scotland with both England and Ireland.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3761		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr M R Petrie		
Module teaching staff:	Dr M Petrie		

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MO3385 'Modern Iran from 1834-1941: Enlightenment, Nationalism & Revolution'			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module looks at developments in Iranian history from the 19th century to the present with particular reference to the impact of the West. The module will assess the various attempts at reform and the consequences of revolution in a country which is proving to be a major regional and international actor in the 21st century. The module will look at the way in which imperial decline has been managed with a view to reversing an restoring Iran's fortunes as a Great Power. Particular attention will be given to political development, the growth of the modern state and the emergence of nationalism and political Islam.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3327		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80% As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Prof A M Ansari		
Module teaching staff:	Professor Ali Ansari		

MO3406 The Soviet Union			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
The emergence and development of the Soviet Union is traced from the Bolshevik Revolution of October 1917, via the period of Stalin's dictatorship and the leaderships of Khrushchev and Brezhnev, up to the end of the Gorbachev era which culminated in the dissolution of the Union in 1991. The module studies interlinked political, ideological, social, economic and cultural themes. The role of the Soviet Union on the international stage is also examined.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40% As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr F M Nethercott		
Module teaching staff:	Dr F Nethercott		

MO3419 The French 'Civil Wars' of the Twentieth Century			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
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.			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module teaching staff:	Dr S Frank		

MO3422 The United States in Depression and War (1929 - 1945)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module examines the United States during the turbulent and difficult 1929-1945 period, with a particular emphasis on society, culture and politics. Topics 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.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr G A M Mitchell		

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MO3425 Stalinism, Nazism and Central Europe (1912 - 1941)			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>The decade-long conflagration (1912-23) replaced Central Europe's empires with ethnolinguistic nation-states. Soon Central Europe's nation-states rejected the West's impositions and control and in this process ditched democracy for authoritarianism and expansionism in the name of this or that nationalism. Subsequently the region's polities chose among Soviet revolutionary totalitarianism (communism), Italy's fascism, and later Germany's Nazi totalitarianism (national socialism). All three political models wanted to replace the old world with a new man of the future, and on the way toward this goal engaged in grand-scale socio-political engineering. At the onset of World War II Central Europe was split between the Soviet Union and the German Empire (aka the Third Reich). Hence, the region was effectively erased from the map of the continent until the turn of the twenty-first century, its fragments construed as belonging to Western and Eastern Europe.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO3332		
Learning and teaching methods of delivery:	Weekly contact: 2 seminars (x 10 weeks), 1 surgery hour (1 x 10 weeks)		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr T D Kamusella		
Module teaching staff:	Dr T Kamusella		

MO3461 Britain in the 1920s and 1930s: Aspects of everyday life			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>This module explores the 'lived experience' of Britain in the 1920s and 1930s via an examination of several key aspects of everyday life. As such it provides an introduction to the historiographical re-interpretation of a period once known predominantly as 'the devil's decade'. Historical study of an 'alternative history' of interwar Britain has gained increasing importance over recent decades. It stresses a whole range of aspects of social, cultural and economic life that are more positive than traditional images of unemployment, depression and poverty suggest. The growth of suburbia and consumerism; developments in attitudes towards women, and men; and changing attitudes to sex; are just some of the topics in this 'alternative' history. Our aim is to examine how the experiences of the majority were transformed in this period, and to gain a fuller understanding of these two vital decades in British history through an examination of the minutiae of daily life.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Dr J J Nott		

MO3502 War and Welfare: Britain 1939 - 1951				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr J J Nott			

MO3508 America and Vietnam				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
America's involvement in Vietnam will be examined in the widest possible sense. Topics will include the reasons for the intervention, the nature of the war, the effect on American Cold War foreign policy and the reasons for the American defeat. The course will also study the effects of the war on the culture of the 1960s and the enduring legacy of the Vietnam experience.				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Prof G J De Groot			
Module teaching staff:	Prof G De Groot			

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MO3513 Heavenly Decade: The 1960s			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>This module will concern itself with the 'Sixties experience' as a worldwide phenomenon. The culture of 'sex, drugs and rock and roll' affected youth around the world. Social conventions were torn down in the frenzied obsession with rebellion and the 'counterculture'. But there was also a majority who neither tuned in, turned on, nor dropped out - youths who deplored the drug culture, held sex sacred, and preferred the Beatles to the Rolling Stones. The module will examine the links between countercultural movements in Berkeley, Berlin, Paris, Mexico City and elsewhere. Due primarily to the availability of sources the module will have an American bias, but there will be sufficient exploration of youth movements in other countries to provide an illuminating cross-cultural perspective. The module will also explore whether the heavenly decade was mainly myth, important more in retrospect than at the time.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Anti-requisite(s)	You cannot take this module if you take MO4952		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module coordinator:	Prof G J De Groot		
Module teaching staff:	Prof G De Groot		

MO3523 Postcolonial Europe: Empire and its Legacies in Western Europe since 1945			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>What did empire mean to Europeans in the twentieth century, and in what ways have colonialism and its legacies shaped the history of Europe since the end of formal imperial rule between 1945 and 1980? This module looks at postwar Western Europe through an imperial lens, applying new perspectives from the field of postcolonial studies. The module covers three main themes: the question of what empire and its loss meant to the colonisers; migration from former colonies to Europe and its consequences; and the memory, representation and historiography of empire. Focusing mainly on Britain and France but also looking at Belgian, Dutch and Portuguese examples, the module uses a wide range of sources and approaches to explore cultural, social and political aspects of post-colonial Europe.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 13%, Coursework = 27%		
	As used by St Andrews: Take-Home Examination = 60%, Coursework = 40%		
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%		
Module teaching staff:	Dr S Frank		

MO3524 Popular Music, Culture and Society: The United States and Britain, 1955-1980

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module explores the ways in which popular music may be used as a lens through which to view socio-cultural changes in Britain and the United States after World War II. It adopts a thematic focus, allowing students to explore particular changes and ideas as they affected both of the countries in question. Adopting a broad and flexible definition of 'popular music', the module explores many of the distinctive musical trends and styles which found particular favour during this period, including rock 'n' roll, skiffle, folk music, 'beat', rock, disco and punk rock. It analyses the ways in which these variously reflected, and served to illuminate, such themes as youth and generational cultures, politics and protest, race, gender, place and social class. While some of the content is transatlantic/comparative in its focus, the module also encourages students to explore those socio-cultural conditions and phenomena which were unique to the US and Britain during this period.</p>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Anti-requisite(s)	You cannot take this module if you take MO3421			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr G A M Mitchell			
Module teaching staff:	Dr G Mitchell			

MO3561 Thatcherism, the 'new right', and the remaking of British politics, c. 1940 - 1997

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>This module explores the course of British politics from the second world war until the election of New Labour in 1997, focusing on the intellectual origins and political impact of the Conservative governments led by Margaret Thatcher between 1979 and 1990. With an emphasis on both primary sources and historiographical debates, the module traces the development of the ideological outlook that came to be christened 'Thatcherism', from the anti-planning rhetoric of the 1940s to the perceived 'crisis' facing Britain in the 1970s, before assessing the performance and legacy of 'Thatcherism' in power. By examining the relationship between ideology and electoral politics, the module offers an insight into some of the key trends in the remaking of British politics between 1945 and 1997, as well as enabling an investigation into the means through which intellectual and economic theories are translated into rhetoric and imagery capable of appealing to a popular audience.</p>				
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	4,000 - to 5,000-word essay = 100%			
Module coordinator:	Dr M R Petrie			
Module teaching staff:	Dr M Petrie			

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MO3581 From World War 2 to Thermidor: Iran in the Short 20th Century			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This course will provide a compact survey of the 'short' Iranian 20th century, which will encompass the key political developments from the Anglo-Soviet invasion of Iran in 1941 to the present day. Several themes will be approached in detail; the impact of Great power involvement in Iranian politics, the rise of resource-based nationalist sentiment within the Iranian elite, as well as the hallmarks of the rule of Mohammad Reza Shah Pahlavi, prior to focusing on the Revolution of 1979 and its aftermath.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr S Randjbar-Daemi		

MO3582 Revolution and Resistance in the 20th Century Middle East			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This course will provide a survey of the long 20th century in the Middle East through the lens of protest movements which have developed across the region. It will initially introduce a thorough theoretical framework for the study of protest movements, and then proceed to analyse case studies ranging from the Urabi revolt against British rule in the 1880s Egypt through to the present-day Arab Spring protests. The purpose is to acquaint students with instances of severe tension and crises between state and society which have had decisive impact in the shaping of the contemporary Middle East.			
Pre-requisite(s):	Before taking this module you must pass at least 60 credits from {MO1007, MO1008, MO2008, HI2001, MH2002}		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.		
	Scheduled learning: 20 hours	Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr S Randjbar-Daemi		

MO4805 The Scottish Enlightenment			
SCOTCAT Credits:	60	SCQF Level 10	Semester Full Year
Academic year:	2018/9		
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
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.			
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour meeting, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%		
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr D W Allan		
Module teaching staff:	Dr D Allan		

MO4850 Britain and Iran in the Modern Era			
SCOTCAT Credits:	60	SCQF Level 10	Semester Full Year
Academic year:	2018/9		
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
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.			
Anti-requisite(s)	You cannot take this module if you take MO4957		
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%		
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Prof A M Ansari		

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MO4853 Under a Bright Red Star: Iranian Marxism in the 20th Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Wednesday 11:00 am			
This special course will provide an overview on the evolution of Marxist thought and practice in Iran, from the late 19th century to the end of the 20th century. It will critically examine the feasibility of applying a Marxian framework to the Iranian case, and analyse how successive generations of Iranian Marxists sought to propose radical socio-political transformations based on their intellectual role-model. The course will focus on both proponents of a political pathway for achieving a transformation of society and those groups and individuals which sought on the other hand a violent overthrow of the existing state order.				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar (x 22 weeks)			
	Scheduled learning: 88 hours		Guided independent study: 506 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr S Randjbar-Daemi			

MO4910 'The German Hercules' - Martin Luther and Germany, 1517 - 2000				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
Martin Luther was the dominant figure of the European Reformation. His ideas brought about the most radical break with the medieval world. Yet he had a particular significance for Germans, who saw him variously as a leader, a prophet, a symbol of a mythic unity, and as the arch-heretic. This module will explore Luther's ideas and the development of the German Reformation in its intellectual and historical contexts, as well as the different ways in which the reformer's legacy has been interpreted by Germans from his own day to our age. The course will examine Luther's place in the German identities fostered in Bismarckian Germany, under National Socialism, and in the former German Democratic Republic.				
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof B M Heal			
Module teaching staff:	Dr B M Heal			

MO4912 French Absolutism: Richelieu to Louis XIV			
SCOTCAT Credits:	60	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>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>			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2.5-hour seminar, plus 1 office hour.		
	Scheduled learning: 55 hours	Guided independent study: 545 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%		
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Prof G R Rowlands		
Module teaching staff:	Professor Guy Rowlands		

MO4932 Russians Making History (1755 - 2000)			
SCOTCAT Credits:	60	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
<p>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>			
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr F M Nethercott		
Module teaching staff:	Dr F Nethercott		

History - Honours Level - 2018/9 - August - 2018

MO4936 Bismarck: Biography - Politics - Mythology

SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>A celebrated history of Germany 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>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 25%, Coursework = 35%			
	As used by St Andrews: 2 x 2-hour Written Examinations = 40%, Coursework = 60%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof F L Muller			

MO4937 Charles Darwin and the Politics of Progress

SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>'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>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 8%, Coursework = 32%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J F M Clark			

MO4938 Progress and Reform: The United States (1880 - 1930)

SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
This module explores the period 1880 - 1930 in the United States - an era of dramatic changes and extensive social and political reform. It examines the period in an intensive, thematic manner; both primary and secondary material will be used to study such themes as Industrialisation, Immigration, the Southern States, Populism and Progressivism, Women and Gender, the Arts and Foreign Policy. The module will employ both textual and non-textual primary sources. Alongside more conventional types of historical document, photographs, film, artworks and music will also be used as a lens through which to view this period.				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr G A M Mitchell			

MO4939 Civil War and Dictatorship in Spain, 1936 - 1959

SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
The Spanish Civil War was not only a battle between 'two Spains', between two versions of what Spaniards thought their country should be, but also cast as an ideological showdown internationally; democracy versus dictatorship, socialism versus fascism. The module focuses on the political, social, cultural and economic history of the Civil War and Francoist dictatorship, tracing developments from the end of the Second Spanish Republic, through the establishment of the 'New Estate' until the close of what is commonly held to be the more fascist phase of Franco's regime, with the accession to political power of the 'technocrats' and their stabilisation plan in 1959. Engaging directly with political tracts and speeches, newsreels, visual propaganda, literature, diaries and memoirs of the time, the module explores the Civil War and Francoist dictatorship as they were imagined, practiced and experienced.				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr K Ferris			

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MO4940 Britain in the Era of the Great War			
SCOTCAT Credits:	60	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in the second year of the Honours Programme.		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
This module will cover the reasons for going to war, the experience of the common soldier, the lions vs donkeys debate, the war economy, the home front experience and the efforts at reconstruction. Each topic will be covered over a fortnight, with seminar discussions and analysis of primary source material.			
Anti-requisite(s)	You cannot take this module if you take MO3404		
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour		
	Scheduled learning: 66 hours	Guided independent study: 234 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		

MO4949 Modern India: From Empire to Republic (1917 - 1950)			
SCOTCAT Credits:	60	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.		
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable		
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 through the critical decades of the twentieth century till the granting of Independence and Partition in 1947 and culminating in the formative years of the newly independent India, 1947-1950. Several interrelated issues including constitutional devolution, the problem of minorities, princely India and the Raj, communications and media, challenges facing the new Republic, etc., will be examined. As such the course will contribute towards an in-depth analysis of 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.			
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.		
	Scheduled learning: 66 hours	Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%		
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%		
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%		
Module coordinator:	Dr C Kaul		

MO4952 The Kennedy Years				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Anti-requisite(s)	You cannot take this module if you take MO3513			
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof G J De Groot			
Module teaching staff:	Prof G De Groot			

MO4959 British Cinema History (1920 - 1960)				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
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.				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J J Nott			

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MO4962 France and Africa in the Twentieth Century: Colonialism, Anti-colonialism, Post-colonialism				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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; 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>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module teaching staff:	Dr S Frank			

MO4967 Elizabethan England: Politics, Religion, and Personalities (1558 - 1603)				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>The popular image of Elizabethan England is of a successful regime gloriously triumphing over its enemies at home and abroad. But recent historians have instead depicted Elizabeth as an imperfect monarch who constantly obstructed and infuriated her political and ecclesiastical elite by refusing to marry, name an heir, or decisively reform the English Church. This Special Subject considers how power was negotiated, manipulated, exploited, and managed by Elizabeth and those around her. Integrating the political and religious history of the period, it examines courtiers, favourites, counsellors within and outwith the Privy Council, nobles, and bishops. The major questions of Elizabethan government - the best form of the church, the rule of a woman, the marriage of a queen regnant, and dynastic instability - will be examined to uncover who really held power. Primary sources studied range from contemporary printed works to records of the everyday workings of government, to court plays and the visual culture of rule.</p>				
Anti-requisite(s)	You cannot take this module if you take MO4916			
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 5%, Coursework = 65%			
	As used by St Andrews: 3-hour Written Examination = 30%, Coursework = 70%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr J E Rose			
Module teaching staff:	Dr J Rose			

MO4970 Revolutions and Empires (1776 - 1848)

SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>In 1700 Europe was a patchwork of different kinds of states from absolute monarchies to free cities. During the eighteenth century the traditional survival strategies of the smaller states began to fail. The dark side of the enlightenment is the story of the decline and disappearance of so many of these small states. The revolutions that began in 1776 and were followed across Europe and beyond can all be seen as rebellions against empire. This module examines these revolutions and their consequences for the empires that they sought to limit or dismantle. The French Revolution, from being a cosmopolitan revolution to put an end to empire, turned into an attempt to create a global republican empire, and the course looks at the consequences of the Revolution for the ideals that sustained it. It goes on to examine the relationship between states after the Napoleonic Wars, and the consequences of the new forces of industrialism, socialism, utilitarianism, liberalism and democracy.</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 3-hour Written Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module teaching staff:	TBC			

MO4971 The City in East and Southeast Asia c. 1850 - 1950

SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>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>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2 x Take-Home Examinations = 40%, Coursework (including presentations) = 60%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr K M Lawson			
Module teaching staff:	Dr K Lawson			

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MO4974 The British Town in the Long Eighteenth Century				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the second year of the Honours Programme.			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>From the later 1600s onwards both the population of Britain and its North American colonies grew rapidly. Many of these extra people moved to towns, which as a consequence underwent astonishing expansion. By 1800 10% of Britons lived in London, and even previously small cities like Liverpool had tens of thousands of inhabitants. In America, towns sprung up where previously there had been only forests and fields. This course examines the experiences of those Britons caught up in this new and strange urban world. We will delve into the terror and the exhilaration, the menace and the bliss, and the awe and the pity, of life in the eighteenth century city. Also, we will investigate how growing towns shaped landscapes, culture, society, economy and politics in this age of enlightenment and Revolution. The course includes field trips to Edinburgh and Glasgow.</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 6%, Coursework = 54%			
	As used by St Andrews: 2 x 2-hour Written Examinations = 40%, Coursework = 60% Examinations = 40%, Coursework = 60%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Dr E F K Hart			
Module teaching staff:	Dr E Hart			

MO4975 Print, Progress and Public opinion. Towards a New History of Print Culture in Early Modern Europe				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme			
Planned timetable:	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable			
<p>Print is rightly seen as one of the defining technical achievements of western civilisation. This course explores the intellectual, political and social impact of print as it developed between 1450 and 1800. It demonstrates that the success of print depended on jettisoning many of the assumptions that powered the first age of invention, developing new markets and finding new readers. Examined by 100% course work and team taught throughout, the module offers participants the opportunity to pursue original research agendas in a fast developing field.</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 x 3-hour seminar, plus 1 x 2-hour office hour.			
	Scheduled learning: 66 hours		Guided independent study: 534 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	New Coursework: 1 x source exercise (2,000 - 2,500 words) and 1 x 4,000- to 5,000-word essay = 100%			
Module coordinator:	Prof A D M Pettegree			
Module teaching staff:	members of the research team of the Universal Short Title Catalogue project			

School of International Relations

International Relations (IR) modules

IR3004 International Political Economy

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am Fri			
<p>This module will begin with an outline of the three major traditions of international political economy: liberalism, Marxism and nationalism, providing an explanation of their main ideas, as well as a critique. After a brief examination of some more contemporary theories, the module will go on to examine the politics of international trade, including an overview of the GATT system, and some topical trade issues. The module will examine the importance of multinational corporations in the world trading system, and will then go on to look at relations between North and South. The module will finish with the importance of regional economic groupings, some thoughts on the future international economic regime.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			

IR3006 International Regimes and Organisations

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am Tue			
<p>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.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr F Buranelli			

International Relations - Honours Level - 2018/9 - August - 2018

IR3008 International Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			

IR3021 Case Studies in Conflict Analysis				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	12.00 noon Thu			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr T D Shepperd			
Module teaching staff:	Dr T Shepperd			

International Relations - Honours Level - 2018/9 - August - 2018

IR3022 International Relations and International Law				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am Wed			
<p>This module investigates international law as a paradigm for critically analysing international relations. It starts from an assumption that international politics is so intertwined with international law concepts and practices that students and practitioners in international relations cannot operate without basic familiarity with international law. International law is an arena for debates about core values of the international system and a mechanism for the balancing of competing values that underpin it. At the same time international law is constrained by international political realities. Throughout the module we will contend not just with the fundamental assumptions about 'international order', but also question in what ways this order is developing. We will strive to better understand the complex relationship between law and politics in the international arena. The conscientious student pursuing this module should (a) be able to see international law as a useful paradigm for the understanding of international relations and be able to contextualize it within international relations theories; (b) be able to identify when a dispute among international actors would benefit from a legal analysis and discern competing values underpinning it; (c) be able to critically evaluate legal arguments and understand how their development and application is constrained by international politics, and (d) have the capacity to apply and discuss international legal rules and concepts in relation to a number of substantive issue areas covered in this module.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Peter			

IR3023 US Foreign Policy: The Dilemmas of Power				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am 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>				
Pre-requisite(s):	Permission of the persian honours adviser			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Prof P O'Brien			

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IR3024 The Politics of Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am Mon			
This module provides an introduction to the study of African politics. Contemporary Africa is complex and varied: the continent consists of around fifty states with very different histories, colonial experiences, economies, values, and social structures. The module reviews the social and historical context of contemporary political life, looking at the changes the continent has undergone since independence. It will examine and seek to understand the colonial legacy, the nature of the post-colonial state, society and its institutions, the nation-building projects and policies of these states and the movement towards democratisation and the continuation of authoritarian rule through low intensity democracy.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof I C Taylor			
Module teaching staff:	Prof I Taylor			

IR3026 Diplomacy and Conflict Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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 = 50%, Coursework = 50%			
Module coordinator:	Prof K M Fierke			

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IR3029 The Logic of Irregular Warfare				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am Mon			
<p>The purpose of this module is to examine the dynamics of violence in three distinct forms of irregular armed conflict: civil wars, insurgencies and guerilla wars. Its starting point is that the twentieth century has witnessed a shift from traditional forms of warfare to these three distinct forms of irregular war and that this shift demands a reconsideration of the way that warfare is studied. Using theoretical approaches to the subject, as well as historical case studies, it will identify the dynamics of irregular warfare in the twentieth century, trace the diverse motivations and strategies implicit in different kinds of irregular warfare, and discuss the implications of this shift for those responsible for countering irregular warfare.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof S Scheipers			
Module teaching staff:	Dr S Scheipers			

IR3030 Human Rights in Theory and Practice				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am Thu			
<p>This module introduces students to the complex debates concerning human rights, and in particular to the interrelationship between human rights in theory and in practice. While human rights is a powerful idea in our time, it is also the focus of numerous controversies. The module explores the philosophical foundations of universal human rights; the political, legal and historical development of modern human rights norms; issues and trends that have arisen since the advent of the United Nations human rights system; and the impact of human rights on the rules of international politics.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J P Hayden			

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IR3031 Globalisation and the War on Terrorism				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am Tue			
<p>This inter-disciplinary module introduces students to various conceptual frameworks for thinking about the war on terror in an age of globalisation, along with a range of empirical case studies designed to illustrate these theoretical debates. A selection of readings is provided, ranging from international relations to other contributions from sociology, criminology, philosophy, history and political science. Theoretical issues examined include globalisation as a new security paradigm; the notion of a globalised War Risk society; the clash of civilisations vs. the continued relevance of realism; and re-defining what 'war' means in the war on terror. Case studies comprise NATO's transformation; war on Iraq; and emerging non-military attempts at global governance in controlling terrorism.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr L Mills			

IR3032 Globalisation and its Disjunctures				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	10.00 am Thu			
<p>Debates concerning globalisation have intensified since 9/11, the US-led intervention in Afghanistan and Iraq, the emergence of various Islamist groups that proclaim jihad, the proliferating security concerns around the world (particularly following the Madrid and London bombings), debates concerning the environment, and the rise of the new economic powers of China and India. Globalisation is a complex phenomenon that is defined in so many different ways that it is difficult to know what it means and to predict its potential utility. The literature on globalisation is diverse in terms of the specific approaches adopted and conclusions reached. There is no single theory of globalisation. Rather globalisation involves complex dialectical processes of homogenisation and differentiation, integration and fragmentation, and universalisation and particularisation. The purpose of this module is to critically explore both the theory and practice of globalisation and its disjunctures in the contemporary world.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G S Sanghera			

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IR3033 Post-Conflict Transition in Sub-Saharan Africa

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), One 2-hour Summer Reading Seminar (Week 1, compulsory), One 3-hour Essay Writing Workshop (Week 5, compulsory), 2 optional consultation hours with Coordinator (x 12 weeks).			
	Scheduled learning: 25 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J R McMullin			

IR3041 International Political Theory

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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 = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	3-hour Written Examination = 40%, Coursework = 60%			
Module coordinator:	Prof A Lang			
Module teaching staff:	Prof Anthony Lang			

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IR3042 Representations of Violent Conflict: Research Seminar				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	10.00 am - 12.00 noon Tue, or 10.00 am - 12.00 noon Wed			
<p>The module interrogates the nature of violence and the representational dilemmas this creates for the researcher and for conflict analysis more generally. It explores competing and cross-disciplinary theoretical and methodological approaches to study violent conflict, and then applies these to specific case studies. Problems associated with researching conflict and violence will also be covered, including ethical considerations, challenges of field research, and problems of cross-cultural communication. Students will produce an original case study focused on a conflict site or issue of their choice. The module provides instruction on research and writing skills, and trains students to construct theoretical and methodological research frameworks that will augment their preparation for the IR Honours Dissertation.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (2 x 2-hour seminar in weeks 2, 4, 7, and 10), and occasional required 1-hour case study workshops (weeks 4, 6, 8, and 10).			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J R McMullin			
Module teaching staff:	Dr J McMullin			

IR3044 Pathways of European State Formation				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am - 12.30 Wed			
<p>The State is one of the most foundational units of analysis in International Relations, but where does it come from? This module explores the historical, and often violent, processes associated with the formation of the modern state in Europe, and the implications for the organisation of the economy and political society, as well as its impact for the larger development of the global political economy. Students will engage in how the creation of the state entails the parallel and commitment creation of categories into which bodies are designated, assigned, and condemned. The module begins with the transition from the mediaeval organisation of European society and concludes with an examination of the role of the state in facilitating and mediating the global economy.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Dr J S Murer			
Module teaching staff:	Dr J Murer			

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IR3045 Violence in Deeply-Divided Societies

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am Wed			
<p>Bloodshed is what tends to keep divided societies in the headlines: yet the nature of this violence often remains under-examined as a political force in its own right. This module seeks to explain what drives processes of violence in deeply divided societies with particular emphasis on what happens at the grassroots and between communities. The module combines theory with in-depth consideration of four case studies from across Europe and the Middle East, taking a longer-term view of conflict in Northern Ireland, Yugoslavia, Israel/Palestine and Iraq.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr N Brooke			

IR3046 Foreign Policy of Modern China

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	12.00 noon Mon			
<p>This module will provide an introduction to the major foreign policy issues and challenges facing the People's Republic of China in the post-cold war world. The primary focus will be on Beijing's evolving opening to the international system since 1949, from Maoist to post-Maoist and post-Dengist global linkages and cooperation. The module will also examine domestic actors in China's foreign policymaking, including the CCP and the People's Liberation Army, and the effects of China's economic development and reforms. Specific regional case studies will be discussed, including changing Sino-American relations and China's relations with the Asia-Pacific region.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C C Ogden			
Module teaching staff:	Dr C Ogden			

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IR3048 Peacekeeping and Humanitarian Intervention				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am - 12.00 noon Tue or 1.00 pm - 3.00 pm Tue			
The module is designed to offer students who have undertaken some previous study in the area of International Relations an introduction to the theories and concepts of international peacekeeping and armed humanitarian intervention. Although we explore peacekeeping as a phenomenon with a long historical lineage, we concentrate on its 'refinement' as an instrument of the United Nations in the period since 1945. The approach adopted is very much a political one - concerned with the international relations and diplomacy of conflict management. This is not a training course for conflict resolution on the ground, much less a military handbook.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr N MacQueen			

IR3053 Peacebuilding and Post-Conflict Transition in Latin America				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am Tue			
The module presents a detailed introduction to the process of conflict transformation in Latin America since the Third Wave of democratisation in the region during the 1980s. The approach taken in the module will be to contrast the theory and practice of conflict transformation and peacebuilding and will include a primary focus on the role and intervention of the United Nations System. In this regard, analysis will centre on conventional forms of peace-keeping, peace-making and peacebuilding supported by the United Nations, as well as on more innovative initiatives, in particular in local-level peacebuilding. The module engages with and evaluates key theoretical frameworks relating to conflict, peacebuilding, the State, democratisation and sovereignty and will be relevant to students interested in developing a career in public policy and policy-making in national and international institutions. We will evaluate the impact of regional United Nations interventions, which will include an innovative analysis that juxtaposes elite peacebuilding practices with local-level peacebuilding initiatives. The module will include conferences from UN functionaries.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R L Brett			
Module teaching staff:	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:	2018/9			
Planned timetable:	12.00 noon Mon			
<p>This module aims to explore how security is conceptualised within the disciplines of Critical Security and Geopolitical Studies. The point of departure is to explore how security is made and unmade through processes of interaction. Addressing this issue raises several important questions about where the boundaries of security begin and end. Does it matter if the boundaries between different spheres of interaction overlap and criss-cross? How do these points of intersection coexist and interact? How can we map the construction and implementation of security in zones of visibility and invisibility? 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>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours	Guided independent study: 278 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Donnelly			

IR3055 International Relations and the Internet

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours	Guided independent study: 280 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G A W Ramsay			
Module teaching staff:	Dr G Ramsay			

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IR3056 Political Leadership: Theories and History				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	1.00 pm Tue			
<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. 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>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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 = 50%, Coursework = 50%			
Module coordinator:	Dr G Slomp			

IR3057 Armaments and International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	1.00 pm - 2.00 pm Thu			
<p>The goal of this module is to introduce students to academic debates and theoretical frameworks that give insights into the impact of armaments (their development, characteristics and proliferation) on international relations. As IR scholars have long recognized, the availability of modern armaments is a key determinant of the international distribution of power. Some have even gone so far as argue that the technological characteristics of armaments fundamentally determines the nature of the international state system. Meanwhile, certain policymakers and NGOs contend that arms dynamics (e.g. arms races and the spread of light weapons) contribute directly to the outbreak of wars. This course will equip students with the analytic tools needed to critically examine both these issues and others. To accomplish this objective, the module will first (weeks 2-5) examine broad theories about how the development of distribution of armaments affects the international state system. Then, we will focus (weeks 6-7) on the particular issue of whether the 'excessive' production and/or availability of armaments can cause wars. Finally, in the three last sessions (weeks 8-10), we will examine how contemporary phenomena -the globalization and Europeanization of arms production - are shaping this particular domain. Ultimately, the understanding that students will gain through this course will enhance their development as political scientists and their ability to work in fields as diverse as: government, NGOs, international organizations, and the corporate sector.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M R De Vore			
Module teaching staff:	Dr M DeVore			

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IR3058 Armed Forces, Societies and Governments: An International Perspective on Civil-Military Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am - 12.00 noon Thu			
<p>This module introduces students to academic debates about relations between governments and military organisations. Armed forces are both essential to states' security, yet also pose a latent threat to governments. Indeed, many more governments are overthrown by military coups d'état than succumbed to foreign invasions. Consequently, governments in developing states face the challenge of ensuring themselves against the risk of military interventions in politics. While the menace of military interventions in politics hangs over developing states, even advanced industrial democracies face challenges in their civil-military relations. To shed light on these issues, we will first (weeks 1-2) examine the timeless questions of civil-military relations (through classic texts) as well as how the changing nature of military organizations over time. Then, we will focus (weeks 3-6) on debates about the impact of different modes of civil-military governance in developed states. Finally, in the four final sessions (weeks 7-10), we will examine civil-military relations in developing states, devoting particular attention to the causes and consequences of military coups d'état.)</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M R De Vore			
Module teaching staff:	Dr M DeVore			

IR3060 Rebellion and Revolution				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	1.00 pm Thu			
<p>Rebellion is the most prevalent form of conflict in the contemporary world. Massive protests, insurgencies, and civil wars bring with them the potential for transformative revolutions. Rebellions, however, also risk widespread violence and destabilisation, resulting in immense destruction for the societies consumed by them. This module takes an historic, comparative approach to understanding the causes, processes and consequences of rebellions and revolutions as important social phenomena that have been experienced across every region in the world. We will analyse the causes of rebellion, the dynamics of insurgency and counterinsurgency, and the outcomes of resistance.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K A Harkness			
Module teaching staff:	Dr K Harkness			

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IR3064 Critical Terrorism Studies				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 11.00 am Mon or Tue			
<p>This module will introduce students to the main concerns raised by Critical Terrorism Studies. Working within the Critical Security Studies tradition, Critical Terrorism Studies argue that mainstream Terrorism Studies has not been open to new challenges and perspectives. As such, Terrorism Studies problematically reifies particular sites and structures of power. Because of this perspective, Critical Terrorism Studies poses several challenges to Terrorism Studies about how terrorism is defined and limited to particular actors. Thus, this module will explore these challenges, which include state terrorism, the discourse of radicalization, and the role of emotion before turning to the intended outcome of Critical Terrorism Studies scholarship: emancipatory practices.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (x 11 weeks), 1-hour tutorial (x 10 weeks), 2 office consultative hours (x 12 weeks), 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 21 hours		Guided independent study: 279 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C E Gentry			
Module teaching staff:	Dr C Gentry			

IR3065 Refugees and International Relations				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (x 10 weeks), 1-hour tutorial (x 10 weeks), 2 office consultative hours (x 12 weeks), 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 21 hours		Guided independent study: 279 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N E G Saunders			
Module teaching staff:	Dr N Saunders			

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IR3066 Emotional Encounters: Diplomacy, Power and Persuasion in World Politics				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	3.00 pm Thu			
<p>As the world becomes increasingly inter-connected new concerns and issues crowd the international agenda and more and more actors can be seen to participate in international affairs. The management of internal and external affairs is becoming more complex, and with the technological revolution an increased focus on language, performance and 'reaching out' to different audiences. This module, in recognition of these trends, seeks to draw attention to and investigate these processes that could be said to be changing the face of diplomacy as we know it. It will explore a range of agents and tools associated with the practice of diplomacy, and draw on a variety of examples to illustrate the different themes and topics covered. One of the key premises of this module will be to highlight and consider the potential enabling as well as constraining effects of emotional dynamics in diplomatic interactions. By focusing on the changing face of diplomacy and the role of emotions in international relations it aims to expose students to two of the most exciting and rapidly expanding fields of enquiry in the discipline of IR.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (x 10 weeks), 1-hour tutorial (x 10 weeks), 2 office hours			
	Scheduled learning: 21 hours		Guided independent study: 279 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-Hour Written Examination = 100%			
Module coordinator:	Dr T D Shepperd			
Module teaching staff:	Dr T Shepperd			

IR3068 Christianity and World Politics				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>This module explores the relationship between Christianity and international politics. After a brief exploration of some of the debates surrounding the study of religion and politics, it will examine some of the ways in which the Christian tradition has engaged with politics. We will then explore a range of cases from Europe, North and South America, and Africa, before turning to look at transnational Christian politics. The broad pattern will include lectures that offer broad overviews of the geographical regions or thematic concerns, and tutorials that pick up on narrower questions, including: relations with the state in the UK & Russia, the religious contributions to democratisation and the overthrow of authoritarian regimes in Latin America and Africa, the tensions between progressive and conservative Christian politics in all of these regions, and the role of transnational religious actors and their engagement with issues of war and peace, religious freedom, and sexual orientation.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J P Anderson			
Module teaching staff:	Prof J Anderson			

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IR3073 Dilemmas of International Order: Governing Conflict and Human Rights				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged			
<p>This module focuses on contemporary international institutions aimed at addressing matters of pressing global concern. It is, most of all, concerned with the practical policy challenges of governance: what should be done to reduce violence and promote peace, justice, and human rights, and how can these goals be achieved in a world of finite resources and competing interests? The module begins by introducing the range of actors in global governance. We then reflect on major theoretical approaches concerning the origins and efficacy of global institutions, asking 'when do institutions matter, and how?' The second half of the module applies these analytic lenses to case studies including disarmament, humanitarian intervention, the International Criminal Court, and the human rights regime. Throughout, students are challenged to integrate theory and empirics to critically evaluate the utility of IR scholarship in understanding and responding to real world problems.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture plus 1 x 1-hour tutorial. In order to ensure small groups for the tutorial discussions, the instructor will divide the class into multiple tutorial groups, each of which will meet each week during semester.			
	Scheduled learning: 27 hours		Guided independent study: 268 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A S Bower			
Module teaching staff:	Dr A Bower			

IR3074 International Relations of Energy and the Environment				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged			
<p>This module provides students with an understanding of key issues in energy studies and environmental politics and their role in international relations in general, and IR as a discipline. The module's main objectives are to provide students with a strong understanding of the evolving nature of the international security agenda and especially the theoretical debates surrounding environmental, energy, food, and water security; the intertwined nature of new security challenges; the resource curse and resource wars; potential conflicts over natural resources access and management across scales; and the role of governance and policy in understanding natural resource conflicts in a trans-boundary context. The module looks at each individual topic as a global issue, while utilising specific case studies from different regions to illustrate the topic.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: One 1-hour lecture (x11 weeks) plus one 1-hour tutorial (x 10 weeks). Optional weekly 2-hour consultation period.			
	Scheduled learning: 21 hours		Guided independent study: 268 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Fumagalli			

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IR3075 Leader Personality and Foreign Policy				
SCOTCAT Credits:	30	SCQF Level 9	Semester	Both
Academic year:	2018/9			
Planned timetable:	TBC			
<p>A thriving research area of foreign policy analysis has taken seriously the impact individuals can have on international relations. Political Psychology focuses on the characteristics of individuals and how this influences political processes and outcomes. Political psychologists who focus on political leaders have examined in detail the ways in which leaders' personalities, experiences, and personal traits affect their conduct of foreign policy and other politically important behaviours (organising political violence, heading international organisations, commanding wars, etc.). This module will examine approaches to the study of political personality, focusing primarily on social scientific methods and findings. Students will have the opportunity to conduct political personality profiles of leaders, including the use of automated computer software to analyse leaders' speeches and writings. This module involves an additional .5-hour/week political personality laboratory.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Anti-requisite(s)	You cannot take this module if you take IR4546			
Learning and teaching methods of delivery:	Weekly contact: One 1-hour lecture per week, one 1-hour seminar per week, one 30 minute laboratory per week.			
	Scheduled learning: 25 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R K Beasley			
Module teaching staff:	Dr R Beasley			

IR3076 Political Economy of Trade and Investment				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged			
<p>This module examines the politics of contemporary trade and investment agreements. The module begins with a brief intellectual history of free trade and protectionist thought, before turning to contemporary international political economy (IPE) theories. IPE theories are applied to the domestic politics of trade first, where the module focuses on the distributional consequences of trade (winners and losers) and the related policy choices that governments face. Then, IPE theories are applied to the international politics of trade. At the international level, theory helps to understand puzzles like why preferential treaties have proliferated even though a multilateral organization, the World Trade Organization, exists. The second half of the module turns to issues included in recently negotiated trade agreements. The module covers agriculture; investment; internet and data governance; and environmental, gender, and labour provisions.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 9 weeks), weekly office hours for student consultations (x 10 weeks)			
	Scheduled learning: 39 hours		Guided independent study: 260 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr W B Vlcek			
Module teaching staff:	Dr T St John			

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IR3104 The International Relations of Post-Communist Central and Eastern Europe				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am - 10.00 am Tue			
Subjects covered include: Mechanisms of control in Soviet-East European Relations; the nature of the 1989 revolutions; changes to the international system; nationalism and ethnic conflict; the Yugoslav wars; Russia's place in Europe; regional cooperation; political-economic change in this international context; western approaches to Eastern Europe; and the new European security architecture.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof F J Fawn			
Module teaching staff:	Prof R Fawn			

IR3113 Gender and Generation				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	2.00 pm Fri			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof A M S Watson			
Module teaching staff:	Prof A Watson			

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IR3300 Conflict in the Middle East				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	10.00 am Mon			
<p>This module examines conflict in the modern Middle East looking at the causes, development and consequences of different types of conflict in the region including interstate, civil war, ethnic, religious and terrorism. It examines state formation and the development of competing ideologies. The legacies of these processes are explored through case studies e.g. the Arab-Israeli conflict, Lebanon and Iraq. The rise of political Islam in the region impacts on state-society relations and both its militant and non-violent manifestations will be examined. The region has been characterised by authoritarian regimes and this legacy and the impact of the 2011 Uprisings will be explored including conflicts in Syria, Bahrain and Yemen. Developments within Shia Islam will be covered in relation to the Islamic Republic of Iran and its impact on regional security. The question of external intervention in the Middle East is also addressed in relation to Iraq post-2003 and the 2011 Arab Uprisings.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), The class will be divided into multiple tutorial groups to allow small group discussion. 2 hour examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Module coordinator:	Dr F McCallum			

IR3301 Politics and State Formation in the Middle East				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am Tue			
<p>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.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Module coordinator:	Dr A Saouli			

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IR3302 Democracy and Revolution in North Africa				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am Tue			
<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-É-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>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 45%, Practical Examinations = 0%, Coursework = 55%			
	As used by St Andrews: 3-hour Written Examination = 45%, Coursework = 55%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Volpi			

IR3303 The Arab - Israeli Conflict				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am or 12.00 noon Tue			
<p>This module is a primer for all students wishing to explore the complexities of the ArabIsraeli conflict from its origins to its recent evolution. The module analyses local, regional and international dimensions of the conflict, drawing upon historical and critical frameworks. The module addresses the themes of war, secular and religious ideologies, and the importance of history, identity and discourse in the conflict.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x 11 weeks), 1 tutorial (x 10 weeks)			
	Scheduled learning: 23 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 10%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J K N Gani			
Module teaching staff:	Dr J Gani			

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IR4099 Honours Dissertation in International Relations				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Fri			
The dissertation will be not more than 12,000 words. Topics must be capable of being supervised by established staff and each student will (a) submit a dissertation outline to the School, (b) be assigned a supervisor, who will be available to discuss issues related to the dissertation, (c) be required to attend nine two-hour research seminars and five supervisory meetings of up to one hour. Eight one-hour tutorials (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Anti-requisite(s)	In taking this module you must not take or have taken any other dissertation module			
Learning and teaching methods of delivery:	Weekly contact: 10 x 1-hour tutorial sessions, 10 x 2-hour research skills seminars, 5 x 1-hour individual consultation sessions with assigned supervisors. 1 x 1-hour information session in Semester 2 of the Junior Honours Year. Additional consultation hours with supervisor, tutor and the Dissertation Coordinator are also available.			
	Scheduled learning: 36 hours		Guided independent study: 564 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Literature Review (semester 1) = 15%, Dissertation (semester 2) = 85%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr F Costa Buranelli			

IR4401 Communication in International Relations				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	not applicable			
This module is part of ID4002 'Communication and Teaching in Arts & Humanities' in which students gain substantial experience of a working environment. This component offers the opportunity to further develop an area of interest in communicating themes of International Relations to contemporary contexts. It is available only to participants in the placement module.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Co-requisite(s):	You must also take ID4002			
Learning and teaching methods of delivery:	Weekly contact: Independent work. 6 hours of essay supervision and 22 office/contact hours over the semester.			
	Scheduled learning: 28 hours		Guided independent study: 122 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F McCallum			

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IR4516 The International Relations of Sub-Saharan Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Tue			
<p>This module examines Sub-Saharan Africa's relations with and position in the global political economy. The module will aim to help understand the historical roots and contemporary impulses that help shape Africa's international relations. The module explores how Africa's nation-states and peoples interact with multilateral development banks, international institutions, aid organisations and other actors (including both normal external states and clandestine networks of accumulation). We will consider Africa's debt and its impact upon the continent's international relations, acknowledging that it is unsustainable but asking if total debt write-off is feasible or desirable. Why Africa's share in world trade is declining and the impact this has on the continent will also be discussed as will the role of trade restrictions and the WTO in shaping Africa's international relations. We will ask what is the logic of regional integration and can it work in Africa, whilst examining the stated goals of political unity and economic progress through the African Union. Is this just rhetoric or is there now hope for solid achievements on both political and economic fronts? We finish with an evaluation with the latest plan to put Africa on the global map: the New Partnership for Africa's Development (NEPAD).</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof I C Taylor			

IR4519 Politics and Development in Southeast Asia				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
<p>This module looks at the development experience of the Southeast Asian region. Southeast Asia has one of the best records in creating economic growth and reducing poverty -- forming part of what the World Bank famously described as the 'Asian Miracle' (though the less impressive part, lagging behind Northeast Asian star performers like Taiwan and Korea). It is also a highly diverse region with an interesting history, providing a lens through which to explore a wide range of contemporary development issues. In particular, Southeast Asia presents a number of challenges for the applicability of developmental logics derived from approaches. In particular, the assumption that free market capitalism and laissez faire economics, coupled with democratic structures are essential elements for economic development. The module also considers the concept of the developmental state and evaluates its different enunciations.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 9 weeks), weekly office hours for student consultations (x 10 weeks)			
	Scheduled learning: 39 hours		Guided independent study: 260 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, ! Take-home Examination to be completed in 48-hour period = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr C Jones			

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IR4523 The Aftermath of the Wars: Liberal Dilemmas

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.			
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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 = 50%, Coursework = 50%			
Module coordinator:	Prof A J Williams			

IR4530 Genocide

SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.			
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr H M Cameron			
Module teaching staff:	Dr H Cameron			

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IR4532 The Cultural Politics of Human Rights				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Mon			
<p>There are more people than ever before who believe strongly in the necessity of the inclusion of human rights considerations when thinking about actions at every level of societal interaction; personal, local, national and international. The use of the concept is, however, frequently misused and the outcome of rights campaigns is often far from the original intention. In exploring these complex issues the module is divided into two parts. In PART I the long-standing and polarising debate between liberal and Marxian theories regarding the role of the concept of human rights in society will be examined. Many theorists are now attempting to go beyond this divide to think through the potential for the concept in the process of social transformation. The social constructionist and neo-Gramscian approaches to the conceptualisation of human rights will be introduced. Drawing on this theoretical discussion a series of contemporary issues will be explored in PART II and the focus will be on suitability of the concept in any programme of social transformation by considering the role - nationally and internationally - of the legal system, economic relations, government and non-government organisations.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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 = 50%, Coursework = 50%			
Module coordinator:	Dr G S Sanghera			

IR4535 Theories of Friendship, Solidarity and Peace				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Thu			
<p>In political theory the concept of peace may be characterised as an umbrella of varying size. At its smallest, the umbrella only captures the bare bones of the concept: peace means absence of war and violence. As it grows in diameter, the umbrella of peace starts to include other factors: first, it captures some agreement on rules regulating conflict and disagreement, then agreement on some basic values, then the bond of solidarity, of fraternity and friendship. This module introduces students to prominent theories of peace in the western tradition and provides them with a foundation for understanding the meaning and significance of peace in different historical circumstances.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G Slomp			

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IR4538 Identities, Belonging and Others				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon - 1.30 pm Tue			
	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.			
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Dr J S Murer			
Module teaching staff:	Dr J Murer			

IR4540 The Changing Character of War				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Mon			
	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.			
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours	Guided independent study: 280 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L F Middup			
Module teaching staff:	Dr L Middup			

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IR4543 Activism and Resistance				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester. Occasional film/video viewing.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof A M S Watson			
Module teaching staff:	Prof A Watson			

IR4545 Indian Foreign Policy				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon Mon			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester. Occasional film/video viewing.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C C Ogden			
Module teaching staff:	Dr C Ogden			

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IR4546 The Psychology of International Security

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Wed or 11.00 am - 1.00 pm Thu			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of 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 = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: 3-hour Written Examination = 20%, Coursework = 80%			
Re-assessment pattern:	3-hour Written Examination = 20%, Coursework = 80%			
Module coordinator:	Dr R K Beasley			
Module teaching staff:	Dr R Beasley			

IR4548 Force and Statecraft

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	1.00 pm Thu			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K A Harkness			
Module teaching staff:	Dr K Harkness			

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IR4552 The Politics of the Environment				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Thu			
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.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A C K Brown			
Module teaching staff:	Dr A Brown			

IR4553 Europe, America and the Transatlantic				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	4.00 pm Tue			
This module will explore European and transatlantic security affairs using a variety of conceptual perspectives. The module will cover both contemporary and historical case studies in order to reach a better understanding of the nature of European and transatlantic security practices. After an introduction to central structures and topics in European and transatlantic security affairs, the module will examine specific topics that are currently under-researched in transatlantic security affairs.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Donnelly			

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IR4555 Music, Politics and International Relations

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 9 weeks) + additional contact hours (TBC). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 19 hours		Guided independent study: 281 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J P Anderson			
Module teaching staff:	Prof J Anderson			

IR4560 Faith, Politics, and War: The Augustinian Tradition in IR

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Situated within a recent reassessment of the relation between religion and international politics, this module is designed to investigate the theological dimension in international theory primarily via an examination of Christian Realism and the Augustinian tradition in IR. In particular, the module revisits important theological moments in IR theory as exemplified in the work of Reinhold Niebuhr, Herbert Butterfield, Martin Wight and Hans Morgenthau and assesses the political theologies informing their thought. Finally, the module critically evaluates the recent worldwide revamping of political theology in international relations and examines the implications of recasting International Relations as a theo-political discourse for rethinking the global politics of religion.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Anti-requisite(s)	You cannot take this module if you take IR3061			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture and 1-hour tutorial.			
	Scheduled learning: 22 hours		Guided independent study: 254 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr V Paipais			

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IR4561 Security as Ethics: Rethinking the Global Polity				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Tue			
As the world becomes increasingly interconnected, and faced with new types of threats and insecurities, questions of ethics or how we should act, which rely on some notion of who 'we' are, become more complex. This module seeks to analyse a number of seemingly intractable global security problems, relating, among others, to health, the environment, migration and political violence, from a different angle and to explore the implications for how we should act in the world to ensure a secure and sustainable future. The module will be structured around Burke and Nymans, eds., Ethical Security Studies (2016) and a range of complementary texts.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (x 11 weeks), 1-hour tutorial (x 9 weeks) 2 consultation hours with Coordinator (x 12 weeks)			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof K M Fierke			
Module teaching staff:	Prof K Fierke			

IR4563 Rebels, Terrorists, Militias: The Comparative Analysis of Armed Groups				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon Wed			
This module introduces students to the comparative analysis of armed groups, such as the Taliban and the so-called Islamic State. The first part addresses important conceptual issues, including the differences between rebel groups, terrorist organisations, and militias. The second part then brings together the study of these different types of groups by investigating the organisational challenges that they all face to varying degrees: recruiting and controlling their members, governing civilians under their control, and using violence effectively. The third part focuses on alliance politics both among armed groups and between them and sovereign states. The fourth part analyses different outcomes, asking why some groups remain cohesive while others split into rival organisations, and why some groups succeed whereas others fail. In each tutorial, students apply conceptual and theoretical insights from the lecture by comparing two or more different groups from the same country.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr H Tamm			

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IR4564 Strategic Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Fri			
<p>The aim of this module is to discuss the major shifts and developments in modern strategic thought and practice, as well as some of the powerful factors that determined and are still determining military possibilities in the modern era. We will examine historical case studies and the reasons for changes in the use and application of military force along two axes: chronological and thematic. Starting from the Second World War, we will analyse the evolution of strategic thought and practice in response to political, technological, cultural and other developments. The combination of historical analysis and thematic issues will allow students to develop a more comprehensive picture of the evolution of strategy as well as better understanding and informed critique of major strategic trends and challenges of recent and contemporary history.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 hour lectures (x 11 weeks) and 1 tutorial (x 10 weeks), office hours, review of essay plans, instructions on essays, and individual feedback sessions			
	Scheduled learning: 21 hours		Guided independent study: 279 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof S Scheipers			
Module teaching staff:	Dr S Schiepers			

IR4565 Contemporary Political Theory: from revolution to recognition				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am - 12.00 noon Tue or Wed			
<p>This module explores the political and social thought of the twentieth century - a century of turmoil and paradox. Rather than the stereotype image of ivory-tower intellectuals unconnected to 'the real world', the thinkers examined in this module were (and are) thoroughly immersed in the unfolding of some of the twentieth century's formative events - from the rise of Communism, to war, occupation and genocide, decolonisation, and the civil rights movement - and their work is dedicated to understanding these events and resolving the concrete political problems that these events revealed or created. Aiming to bridge the 'theory-practice' divide, the module examines how these thinkers grappled with power, class, race, gender, and culture, and in doing so contested the orthodoxies of politics and political theory, and have provided inspiration and critical tools for political action moving forward.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar (x 10 weeks). 2-hour film/video viewing (x 3 weeks) 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 26 hours		Guided independent study: 274 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr N E G Saunders			
Module teaching staff:	Dr N Saunders			

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IR4566 Comparative regionalism				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 pm Tue			
<p>The module offers an investigation of different processes of regionalism across the globe, with regionalism understood as the creation of territorially contiguous patterns of cooperation in different areas of international relations that may or may not be supported by narratives of common identities. While much of the discipline still conforms to a Euro-centric vision of regionalism and regional integration, the module deliberately explores non-European experiences and developments of regional cooperation. Different aspects of regionalism and the creation of regional institutions will be analysed and discussed with respect to Africa, Latin America, the Post Soviet Space, East Asia and South East Asia. Attention is devoted to concrete issues of cooperation and conflict in these specific regions, to the institutional characteristics of their regional organizations and to the interpretations that international norms such as sovereignty are conceptualised and 'localized'.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (x 11 weeks) and 1-hour tutorial (x 10 weeks)			
	Scheduled learning: 21 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Costa Buranelli			
Module teaching staff:	Dr F Buranelli			

IR4568 International Relations of Energy and the Environment				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
<p>This module provides students with an understanding of key issues in energy studies and environmental politics and their role on international relations in general, and IR as a discipline. The module's main objectives are to provide students with a strong understanding of the evolving nature of the international security agenda and especially the theoretical debates surrounding environmental, energy, food, and water security; the intertwined nature of new security challenges; link debates in IR on energy and the environment to related conversations in cognate fields (environmental sciences and policy; public policy; political geography; anthropology); potential conflicts over natural resources access and management across scales; and the role of governance and policy in understanding natural resource conflicts in a trans-boundary context. Additional themes covered in the course include the 'shale revolution', energy transitions, global environmental and energy governance, resource merc</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: One 1-hour lecture (X11 weeks) plus one x 1-hour tutorial (X10 weeks)			
	Scheduled learning: 21 hours		Guided independent study: 268 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Exam = 100%			
Module coordinator:	Dr M Fumagalli			

International Relations - Honours Level - 2018/9 - August - 2018

IR4569 Geopolitics of Energy in the Caspian Region				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Wed			
	<p>The module discusses the links between energy and international politics and security in and around the Caspian Region. The module has three main objectives. First, it familiarises students with the main trends, issues and actors in regional and global energy markets. Next, it focuses on energy security by examining similarities and differences in the areas of water, minerals, oil and gas markets in the Caspian region. Lastly, it discusses a select number of case studies illustrating instances of cooperation and conflict over natural resources, issues in energy governance, pipeline diplomacy, China's reliance on resource mercantilism, the rise of resource nationalism in Russia and the Central Asian republics, as well as including environmental challenges in the Aral Sea basin.</p>			
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (x 11 weeks) and 1-hour tutorial (x 10 weeks)			
	Scheduled learning: 21 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Fumagalli			

IR4570 Everyday Life and Global Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
	<p>The study of international relations has predominantly focused on supposedly 'official' actors, sites and practices. But what about 'ordinary' individuals? What about their 'mundane' practices and quotidian behaviours? How do their everyday lives fit into IR? This module explores how everyday life and global politics are co-constitutive. Drawing on a range of interdisciplinary theoretical perspectives, students will critically interrogate how it is in the everyday that the global is situated and produced. Whether travel, leisure, or popular culture, this module reveals how these everyday objects, structures and practices mutually constitute global power relations that are messy, complex and bolster often problematic logics of militarisation, gender, race, class, and so on. This module will therefore introduce students to (and encourage them to engage in) alternative and creative ways of thinking, and also alternative and creative sites and forms of scholarship, learning and assessment.</p>			
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr L J Mills			
Module teaching staff:	Dr L Mills			

International Relations - Honours Level - 2018/9 - August - 2018

IR4571 Conflict and intervention in world politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Tuesday 11:00			
<p>This module critically engages with evolving landscapes of armed conflict. It provides students with the theoretical and conceptual foundation to understand change and continuity in contemporary conflict and intervention. We will use recent and ongoing cases to examine the theoretical and policy implications of multiple and often contradictory tendencies surrounding armed conflicts. New developments in conflict and intervention will be historicised within a longer trajectory. The module's analytical aim is to explore two interconnected questions pertaining to the core values of the international system: (1) how are the shifts in the global order altering conflicts and interventions; and (2) what are the implications of new trends in conflict and intervention for the state system and collective security. The module includes a simulation of the UN Security Council.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x one-hour lecture plus 1 x one-hour tutorial (Weeks 1-7), 1 x two-hour seminar (Weeks 8-10).			
	Scheduled learning: 22 hours		Guided independent study: 276 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%			
	As used by St Andrews: Coursework = 50%, 48-hour Take-home Examination = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr M Peter			

IR4572 Economy of Anger: Marxism, Psychoanalysis and the Politics of Status				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Wednesday 11:00 - 14:00			
<p>'Economy of Anger' explores how the competitive and adversarial ethos of modern capitalism encourages, and may require, violent separations and distinctions within and among social groups. The module explores the motivations of perpetrators of contemporary political violence associated with racism, xenophobia, misogyny, and other expressions from the extreme political right in Britain and the US, and theorizes these acts outgrowths of contemporary capitalism, not as opposition to it. Critical psychoanalytic engagements provide the means to examine the internalisation of violent social imaginaries resulting from anxieties of social displacement, precarity, and alterity. Marxian Psychoanalysis further offers a reflexive praxis to guide new modes of organising social interactions, and thereby recover or build anew inter-subjective engagements with one another and with nature.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: One 3-hour seminar (x11 weeks)			
	Scheduled learning: 36 hours		Guided independent study: 275 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J S Murer			
Module teaching staff:	Dr J Murer			

International Relations - Honours Level - 2018/9 - August - 2018

IR4600 Ideologies and Social Movements in the Middle East

SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon Tue			
<p>This module examines prominent ideologies in the modern history of the Middle East, and the role ideas play in the political mobilisation of society. The module draws particular attention to anti-colonial, nationalist, religious and liberal social movements; it compares the formation, implementation and evolution of the different sets of ideologies, and the relationships between the social movements and the state. The module aims to a) deepen students' understanding of ideologies in the region, beyond culturalist and power-political frameworks, and b) to highlight the important role of societal forces in Middle East politics.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J K N Gani			
Module teaching staff:	Dr J Gani			

IR4601 Political Order and Violence in the Middle East

SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Tue			
<p>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.</p>				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultative hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A Saouli			

International Relations - Honours Level - 2018/9 - August - 2018

IR4602 International Relations of the Middle East				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Tue			
This module examines Middle East international relations, with a special concern for the following topics: 1) the special character of the Middle East state system, including the exceptional impact of the international system on the region and the special role of identity and religion in regional politics; 2) the determinants of the foreign policies of Middle East states, including the impact of variations in state structures (between monarchies, radical republics and semi-democracies) on foreign policy behaviour; and 3) analysis of regional conflict and war and of order-building experiments.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1-hour lecture (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 2 consultation hours with Coordinator (x 12 weeks). 2 hours examination feedback in week 1 of following semester.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof R Hinnebusch			

IR4606 Propaganda, Persuasion and Information War in the Middle East				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Fri			
This module aims to introduce students to the ways in which great powers, regional powers and regional non-state actors have used propaganda and strategic communications to advance their interests in the Middle East region. The focus will be on events since the turn of the millennium, but the module will go back to the mid-twentieth century to discuss the development of regional media and propaganda. The module will also focus on teaching students to critically analyse specific media and propaganda texts.				
Pre-requisite(s):	Before taking this module you must pass IR2006			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lectures (x 11 weeks) and 1-hour tutorials (x 10 weeks)			
	Scheduled learning: 21 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G A W Ramsay			
Module teaching staff:	Dr G Ramsay			

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IR4607 Britain's Iraq War 1990-2014			
SCOTCAT Credits:	30	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	Lectures - Mon 10:00, Seminars Tues 13:00 and 14:00		
This module looks at Britain's role in the Iraq War of 2003. In order to do this, it goes back and looks at Britain's policy towards and involvement in Iraq and the Middle East since the end of the First World War. There are a number of questions that run through this module: what role should the United Kingdom play in world affairs?; what's the nature of the UK's security relationship with the United States and what are the costs and benefits of this relationship?; what role does the UK play as one of the permanent five members of the UN Security Council?; and what is the UK's relationship in the triangular relationship between the UK, US and Europe, both in the sense of its fellow members of the European Union and in the sense of its fellow members of NATO.			
Pre-requisite(s):	Before taking this module you must pass IR2006		
Learning and teaching methods of delivery:	Weekly contact: One lecture (x10 weeks), one seminar (x10 weeks)		
	Scheduled learning: 20 hours	Guided independent study: 292 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: Coursework = 50%, 3-hour Written Examination = 50%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr L F Middup		
Module teaching staff:	Dr L Middup		

IR4795 Joint Dissertation (60cr)			
SCOTCAT Credits:	60	SCQF Level 10	Semester Full Year
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from (url to be confirmed). No student may do more than 60 credits in Dissertation or Project modules.		
Planned timetable:	To be arranged.		
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/)			
Pre-requisite(s):	Before taking this module you must pass IR2006		
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.		
	Scheduled learning: 0 hours	Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: As per Letter of Agreement.		
Re-assessment pattern:	As per Letter of Agreement.		

School of Management

Management (MN) modules

MN3101 Corporate Finance and Control				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>This module separates the problems of financially vulnerable firms from financially strong firms. The balance sheets and cash flows of vulnerable firms tend to be unusually susceptible to financial pressures and cyclical influences; asymmetries of information and agency costs operate as constraints on the access of such firms to external funding; they are likely to experience both credit and equity rationing in conditions of high interest rates; cash-flow interdependencies may adversely affect dividend and capital expenditure decisions alike. Financially strong firms to a large extent cope with such problems. Major decisions in financial management are presented in modern theory as multiple signals, which may corroborate or contradict one another, emitted by each firm.</p>				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 9 weeks) and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 29 hours		Guided independent study: 171 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr L Nguyen			

MN3102 Organisation Studies				
SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	4.00 pm - 6.00 pm			
<p>This module examines major organisational theories, surveys key topics in this area, and explores organisational forms that have emerged in recent times. The study of organisations has become a major topic of study, drawing on disciplines such as economics, sociology, psychology, anthropology, and history. The interdisciplinary nature of organisation studies has produced a wide variety of perspectives. These perspectives are based on different assumptions, and place strong emphasis on certain aspects of the organisation at the expense of others. When brought together, however, they yield a rich multifaceted picture of power socioeconomic systems that shape our lives.</p>				
Pre-requisite(s):	Before taking this module you must pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 4 weeks) and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 24 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G J Greig			
Module teaching staff:	Dr G Greig, TBC			

Management - Honours Level - 2018/9 - August - 2018

MN3116 Financial Markets and Investments				
SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	If not already passed you must take MN3101			
Co-requisite(s):	If not already passed you must take MN3101			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mr X Chen			
Module teaching staff:	Dr D Oto-Peralias			

MN3126 International Business				
SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
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 interationalisation, 4) international markets and marketing, 5) international HRM, 6) the managerial control of multinationals, 7) Foreign Direct Investment and 8) International trade. It will thereby offer students the opportunity to analyse the implications of international business decisions at a range of levels, from (primarily) a strategic perspective.				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Anti-requisite(s)	You cannot take this module if you take MN4233			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R C Brown			
Module teaching staff:	Dr R Brown			

MN3201 Research Methods: 1

SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>This module introduces research in the Social Sciences. It focuses on the skills and knowledge involved in understanding, evaluation and conducting research in the wider management field. The module will develop and begin to refine competencies that will occupy the students throughout their professional careers. Doing good research requires time, observation, diligence and reasoning. The module will explore issues, methods and dilemmas central to conducting and analysing research. The central theme throughout the module will be the examination of the links between the theoretical and empirical realms. In taking this module, students will experience the challenges of research and, with a diligent approach, they will also experience the thrill of discovery.</p>				
Pre-requisite(s):	Entry to a single honours management or management science degree			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 3 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 23 hours		Guided independent study: 177 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Prof H T O Davies			
Module teaching staff:	Prof H T O Davies, TBC			

MN3202 Research Methods: 2

SCOTCAT Credits:	20	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>This module follows on from MN3201. It builds key research competencies in library search, problem definition, literature review and study design. These competencies will be developed using a combination of class lecture; library visit; group surgeries; group progress meetings; one-to-one work with individual members of academic staff; and self motivated and conducted research. Students are expected to master library research techniques, including the use of electronic resources in research; literature synthesis; research problem formulation; and the preparation of a clear and focused research proposals.</p>				
Pre-requisite(s):	Entry to a single honours management or management science degree			
Co-requisite(s):	In the same year as taking this module you should take MN3201			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 5 weeks) and at least 4 hours of supervisory meeting)			
	Scheduled learning: 14 hours		Guided independent study: 188 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Dr C Akinci			
Module teaching staff:	Team taught			

Management - Honours Level - 2018/9 - August - 2018

MN4100 Contemporary Issues in Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students on a Management Honours programme.			
Planned timetable:	To be arranged.			
This module provides a learning experience in which management students (on the single and joint honours pathways) can: reflect back on all the modules they have taken as part of their studies at the University and integrate insights from this prior study; understand and respond to current and likely future challenges that will face them in the near and intermediate future as managers and citizens; and develop skills for being a contributor to responsible enterprise in a number of operational settings.				
Pre-requisite(s):	Before taking this module you must pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 7 weeks), 1-hour seminar (x 11 weeks), 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Prof K J Bebbington			
Module teaching staff:	Team taught			

MN4211 International Marketing				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 10 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 32 hours		Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr M Khalik			

MN4213 Human Resource Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 24 hours		Guided independent study: 176 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S A Chillas			

MN4214 Management of Change				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Prof K Ball			

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MN4223 International Banking				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 1.00 pm Fri			
<p>International banks operate on a cross-border basis. They buy and sell foreign exchange, diversify international risks and advance credit for trade and investment projects. Typically international banks are large domestic commercial banks, which often operate in Euro markets and offshore centres. This module covers two main areas. In the first part students will examine the characteristics of international banking and the markets and activities in which international banks operate. In the second part, the module is concerned with the regulation of international banking. The role of institutions such as the World Bank and IMF, and the causes and effects of international banking crises are featured. This module aims to give students a good grounding in the theory and practice of modern international banking and an appreciation of the related policy issues involved.</p>				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof J O S Wilson			
Module teaching staff:	Prof J Wilson			

MN4227 Corporate Social Responsibility, Accountability and Reporting				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>This module provides an introduction to and analysis of corporate social responsibility and sustainability, the meaning, tensions and conflicts that social responsibility entails and the role that accountability can play in the discharge of responsibility in a democracy. The module will examine the theory and practice of social, environmental and sustainability reporting as a manifestation of social and environmental accountability and explore and assess current experiences with that reporting. The module will examine the practical and political constraints on the development of substantive social, environmental and sustainability reporting and explore different ways in which the discharge of social accountability might be achieved.</p>				
Pre-requisite(s):	Before taking this module you must (pass MN2001 and pass MN2002) or pass SD2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 11 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module teaching staff:	Prof Ferguson			

MN4236 Sociology of Finance

SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>In the wake of the global financial meltdown, scholars and professionals alike struggle to understand the causes of the collapse. A sociology of financial markets offers unique insights here. This module will provide a broad introduction to the sociology of finance, including: the research field and its roots in science studies; the architecture and technologies of markets; the role and importance of calculation; the chicken-and-egg problem of economic theory and practice; the specific practices of measurement and calculation that precipitated the crisis; and alternative financial perspectives, such as that offered by Islamic finance. Students will develop a deep understanding of the mechanisms that power financial markets and their relevance to the global economy.</p>				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P J Roscoe			

MN4238 Sustainable Development and Management

SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must (pass MN2001 and pass MN2002) or pass SD2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 9 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 29 hours		Guided independent study: 171 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S L Russell			
Module teaching staff:	Team taught			

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MN4241 Knowledge Work: Practice and Context				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Dr C Akinci			

MN4242 Advertising and Marketing Communications				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Advertising has an established presence in developed economies and is a key aspect of companies' marketing communications programmes. The module will extend your knowledge of this key marketing function by developing your understanding of advertising as an element in the integrated marketing communications mix and how the advertising process is practiced and managed.</p>				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 tutorial (x 9 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 29 hours		Guided independent study: 171 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Mr W Barlow			

MN4244 Behavioural Decision Making				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>This module explores the problems of decision making and judgment in leadership contexts. It is set around a collection of stories and cases, meant to vividly illustrate important and challenging decision scenarios. Each of the scenarios is examined with theories and concepts from social/cognitive psychology. The purpose of the module is to provide students with opportunity to critically examine the 'intuitive' vs. 'rational' course of action in scenarios that involve goal-setting, uncertainty, delayed gratification, and tragic trade-offs. Students will be equipped to identify judgmental biases and to reason about ways to deal with these.</p>				
Pre-requisite(s):	Before taking this module you must pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) and 1 seminar (x 10 weeks), and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C Akinci			

MN4245 Leadership Development				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to students on the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>Drawing on current academic debates, examples of leadership challenges from practice and students' own experiences this module examines how leaders can be developed (by themselves and others) to address evolving strategic contexts and emerging patterns of organisation in the private, public and third sector. Focussing not just on the being and doing of leadership, but also on the becoming the module aims to: - develop students' critical understanding of current leadership theory and practice; - provide opportunities for students to construct and interpret leadership development experiences; - support students in developing their effectiveness in a variety of leadership contexts where they may or may not have formal authority.</p>				
Pre-requisite(s):	Before taking this module you must pass MN3102			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) 1 seminar (x 8 weeks), 1 practical class (x 6 weeks) and 3 optional consultative hours (x 10 weeks)			
	Scheduled learning: 34 hours		Guided independent study: 166 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S D Aggarwal			
Module teaching staff:	Dr S Romenska			

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MN4263 Entrepreneurship and Small Business Development				
SCOTCAT Credits:	20	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 3 lectures (x 9 weeks) and a further 5 hours of tutor contact, and 2 optional consultative hours (x 10 weeks)			
	Scheduled learning: 32 hours		Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Mr C J Lovatt			
Module teaching staff:	Mr C Lovatt			

MN4266 Non Governmental Organisations (NGOs): Contexts, Contributions, and Challenges				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 3 x 1-hour workshops, and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module coordinator:	Dr E Burt			

MN4268 Equality and Diversity in Organisations

SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>This module explores Equality and Diversity issues in the context of a range of organisations. We will first develop a clear understanding of the legal framework within which Equality and Diversity issues exist in the UK and the range of E&D issues we will explore including those related to gender, age, disability, and ethnicity. We will explore the individual and group processes which frame the utilisation of stereotypes within organisations and how such devices can produce bias, prejudice and discrimination. We will then examine the relationship between Equality and Diversity issues and organisational culture and sub-culture, organisational success and failure, individual and group performance, and finally, we will explore mechanisms for addressing and managing Equality and Diversity challenges. Students will achieve a comprehensive and deep understanding of Equality and Diversity issues, challenges and initiatives by the end of the module. A range of theoretically-focused and empirically-focused academic reading will frame students' developing understanding of the key issues explored. Moreover, materials will be used throughout to concretise and contextualise students' understanding of the issue explored. These include developed scenarios, case studies, film clips and extended film viewings.</p>				
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 10 weeks) 1-hour seminars (x 10 weeks), and 4 optional consultative hours (x 12 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module teaching staff:	Prof R Woodfield, Dr B Bratanova			

MN4301 Management Project

SCOTCAT Credits:	20	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Students are required to complete the Management Research Project closely based upon the research proposal submitted in MN3202. The module can be taken in either the first or second semester of the Senior Honours year. The completed work is expected to be 6000 - 8000 words in length. It may involve fieldwork or desk-based research, or a combination of both. It should have a strong conceptual or theoretical component. It may be of a problem solving nature. Time management and the ability to work to deadlines will be integral to the assessment. The assessed work will be scored for clarity, focus, purpose, rationale and attention to detail. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	Before taking this module you must pass MN3201 and pass MN3202			
Anti-requisite(s)	You cannot take this module if you take MN4209			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and at least 6 hours of supervisory meetings			
	Scheduled learning: 8 hours		Guided independent study: 192 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Project report / dissertation = 100%			
Re-assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module teaching staff:	Team taught			

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MN4310 Scenario Thinking				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
The module aims to provide students with a better understand the complexity of global, national or regional environments through the use of scenarios and to use the scenario process to assist creative strategy development. In addition, the module aims to use the scenario process to integrate a number of important organisational development concepts that help to provide organisations with future vision and adaptability: imagination; action learning; narratives and 'storying'; competencies and dynamic capabilities; reflective strategic consulting; reflexive practices.				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Anti-requisite(s)	You cannot take this module if you take MN4225			
Learning and teaching methods of 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 pattern:	Coursework = 100%			
Module teaching staff:	Prof B MacKay			

MN4311 Dynamic Strategic Management				
SCOTCAT Credits:	20	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Before taking this module you must pass MN2001 and pass MN2002			
Anti-requisite(s)	You cannot take this module if you take MN4203			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 4 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 26 hours		Guided independent study: 174 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof R B Mackay			
Module teaching staff:	Prof B Mackay			

School of Mathematics & Statistics

Mathematics & Statistics (MT) modules

MT3501 Linear Mathematics 2			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu		
	This module continues the study of vector spaces and linear transformations begun in MT2501. It aims to show the importance of linearity in many areas of mathematics ranging from linear algebra through to geometric applications to linear operators and special functions. The main topics covered include: diagonalisation and the minimum polynomial; Jordan normal form; inner product spaces; orthonormal sets and the Gram-Schmidt process; adjoint and self-adjoint operators.		
Pre-requisite(s):	Before taking this module you must pass MT2501		
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%		
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework = 10%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr J D Mitchell		
Module teaching staff:	Dr J Mitchell		

MT3502 Real Analysis			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	11.00 am Mon (even weeks), Tue & Thu		
	This module continues the study of analysis begun in the 2000-level module MT2502 Analysis. It considers further important topics in the study of real analysis including: integration theory, the analytic properties of power series and the convergence of functions. Emphasis will be placed on rigorous development of the material, giving precise definitions of the concepts involved and exploring the proofs of important theorems. The language of metric spaces will be introduced to give a framework in which to discuss these concepts.		
Pre-requisite(s):	Before taking this module you must pass MT2502		
Learning and teaching methods of delivery:	Weekly contact: 2.5-hours of lectures and 1 tutorial.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 90%, Class Test = 10%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr J M Fraser		
Module teaching staff:	Dr J Fraser		

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MT3503 Complex Analysis				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
This module aims to introduce students to analytic function theory and applications. The topics covered include: analytic functions; Cauchy-Riemann equations; harmonic functions; multivalued functions and the cut plane; singularities; Cauchy's theorem; Laurent series; evaluation of contour integrals; fundamental theorem of algebra; Argument Principle; Rouché's Theorem.				
Pre-requisite(s):	Before taking this module you must pass MT2502 or pass MT2503			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 34 hours		Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Quick			

MT3504 Differential Equations				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri			
The object of this module is to provide a broad introduction to analytical methods for solving ordinary and partial differential equations and to develop students' understanding and technical skills in this area. This module is a prerequisite for several other Honours options. The syllabus includes: existence and uniqueness of solutions to initial-value problems; non-linear ODEs; phase-plane analysis; Green's functions for ODEs; Sturm-Liouville problems; first order PDE's; method of characteristics; classification of second order linear PDEs; method of separation of variables; characteristics and reduction to canonical form.				
Pre-requisite(s):	Before taking this module you must pass MT2503			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 examples class (week 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100% (2-hour final exam = 90%, class test = 10%)			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof A W Hood			
Module teaching staff:	Prof A Hood, Prof D Dritschel			

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MT3505 Algebra: Rings and Fields

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am Mon (odd weeks), Wed & Fri			
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.				
Pre-requisite(s):	Before taking this module you must pass MT2505			
Learning and teaching methods of delivery:	Weekly contact: 2.5 hours of lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr S Huczynska			

MT3506 Techniques of Applied Mathematics

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	12.00 noon Mon (odd weeks), Wed & Fri			
Differential equations are of fundamental significance in applied mathematics. This module will cover important and common techniques used to solve the partial differential equations that arise in typical applications. The module will be useful to students who wish to specialise in Applied Mathematics in their degree programme.				
Pre-requisite(s):	Before taking this module you must pass MT2506 and pass MT3504			
Anti-requisite(s)	You cannot take this module if you take PH3081			
Learning and teaching methods of delivery:	Weekly contact: 2.5 hours of lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module teaching staff:	Dr R Scott			

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MT3507 Mathematical Statistics				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass MT2508			
Learning and teaching methods of delivery:	Weekly contact: 2.5 hours of lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 90%, Class Test = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof S T Buckland			
Module teaching staff:	Prof S Buckland			

MT3508 Applied Statistics				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	12.00 noon Mon (even weeks), Tue & Thu			
<p>Together with MT3507, this module provides a bridge between second year and Honours modules in statistics. It deals with the application of statistical methods to test hypotheses and draw inferences from data. This includes a number of nonparametric methods and statistical tests (goodness-of-fit tests and tests of independence). Inference methods include model fitting by least squares and maximum likelihood, and variance estimation by means of the information matrix and by bootstrap. Applications include multiple regression, analysis of variance, the general (normal) linear model and an introduction to generalized linear models.</p>				
Pre-requisite(s):	Before taking this module you must pass MT2508			
Learning and teaching methods of delivery:	Weekly contact: 2.5 hours of lectures and 1 tutorial.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework (Project) = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof L J Thomas			
Module teaching staff:	Prof L Thomas			

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MT3802 Numerical Analysis			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri		
The module will introduce students to some topics in numerical analysis, which may include methods of approximation, iterative methods for solving systems of linear equations, numerical techniques for differential equations.			
Pre-requisite(s):	Before taking this module you must pass MT2501		
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%		
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr A Naughton		

MT3852 Automata, Languages and Complexity			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not available to Joint Honours Mathematics and Computer Science students.		
Planned timetable:	10.00 am Mon (even weeks), Tue, Thu.		
This module begins with finite state machines, context-free grammars and big-O notation. Turing machines, non-determinism and pushdown automata are introduced, followed by studies on decidability, simulation and the Halting problem. The complexity classes P, NP, co-NP, NP-hard, etc., are described via analysis of SAT and graph isomorphism. Strengths and limitations of the abstract approach to complexity are discussed, followed by an introduction to practical complexity.			
Pre-requisite(s):	Before taking this module you must pass MT2504 or ((pass CS2001 or pass cs2101) and pass CS2002)		
Anti-requisite(s)	You cannot take this module if you take CS3052		
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures (x 11 weeks), .5-hour tutorial (x 10 weeks)		
	Scheduled learning: 27 hours	Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Prof C M Roney-Dougal		
Module teaching staff:	Prof C Roney-Dougal, Dr S Sarkar, Prof Ian Gent, Prof S Linton		

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MT4003 Groups				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am Mon (even weeks), Tue and Thu			
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.				
Pre-requisite(s):	Before taking this module you must pass MT2505			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11).			
	Scheduled learning: 45 hours		Guided independent study: 105 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof N Ruskuc			

MT4004 Real and Abstract Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3502			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof L O R Olsen			
Module teaching staff:	Prof L Olsen			

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MT4005 Linear and Nonlinear Waves

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu			
This module gives an introduction to wave motion and its importance in many areas of applied mathematics. It begins with a discussion of the linear approximation for small amplitude waves and discusses properties of these such as dispersion relations, phase and group velocities, dissipation and dispersion. Some nonlinear effects such as wave steepening are then treated and an introduction given to some of the equations, for example Burger's and Korteweg de Vries, which are used to model nonlinear wave propagation.				
Pre-requisite(s):	Before taking this module you must (pass MT2506 or pass PH3081) and (pass MT3503 or pass MT3504)			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A N Wright			
Module teaching staff:	Dr A Wright			

MT4111 Symbolic Computation

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri			
This module aims to enable students to use a computer as a tool in their other modules and to turn naturally to a computer when solving mathematical problems. The module aims to illustrate the following points: computation allows one to conduct mathematical experiments; computation allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The computer is not intelligent; intelligence comes from the user. The user thinks, the user interprets, the computer calculates.				
Pre-requisite(s):	Before taking this module you must pass one module from MT3501, MT3502, MT3503, MT3504, MT3505 or MT3506			
Anti-requisite(s)	You cannot take this module if you take MT5611			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 practical session (weeks 2 - 11)			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr L S Theran			
Module teaching staff:	Dr L Theran			

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MT4113 Computing in Statistics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon Mon (odd weeks) and Wed, 12.00 noon - 2.00 pm Fri			
The aim of this module is to teach computer programming skills, including principles of good programming practice, with an emphasis on statistical computing. Practical work focusses on the widely-used statistical language and environment R. Practical skills are developed through a series of computing exercises that include (1) modular programming; (2) manipulating data; (3) simulating data with specific statistical properties, (4) investigating behaviour of statistical procedures under failure of statistical assumptions.				
Pre-requisite(s):	If not already passed you must take MT2508			
Co-requisite(s):	If not already passed you must take MT2508			
Learning and teaching methods of delivery:	Weekly contact: 1.5-hour lectures (x 10 weeks), 2-hour practical classes (x 10 weeks)			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	1-hour 40 minute Written Examination = 40%, Coursework (4 new programming assignments) = 60%			
Module coordinator:	Prof L J Thomas			
Module teaching staff:	Prof L Thomas			

MT4507 Classical Mechanics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must (pass MT2506 or pass PH3081) and pass MT3504			
Anti-requisite(s)	You cannot take this module if you take PH4038			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V Archontis			

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MT4509 Fluid Dynamics

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT2506 and pass MT3504			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Written Examination = 100% (2-hour final exam = 90%, class test = 10%)			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J N Reinaud			
Module teaching staff:	Dr J Reinaud, Dr H Burgess			

MT4510 Solar Theory

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT2506 and pass MT3504			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A N Wright			
Module teaching staff:	Dr A Wright, Dr P Antolin			

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MT4511 Asymptotic Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3504			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr A L Wilmot-Smith			
Module teaching staff:	Dr A Wilmot-Smith			

MT4514 Graph Theory				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT1003 or pass MT2504 or pass MT2505			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr S Huczynska			

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MT4515 Functional Analysis

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT2501 and pass MT3502			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof K J Falconer			
Module teaching staff:	Prof K Falconer			

MT4527 Time Series Analysis

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT2508			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Papathomas			

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MT4531 Bayesian Inference				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3507 or pass MT3508			
Anti-requisite(s)	You cannot take this module if you take MT5831			
Learning and teaching methods of delivery:	Weekly contact: 24 lectures and 7 practical classes over the semester.			
	Scheduled learning: 31 hours		Guided independent study: 119 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Papathomas			

MT4539 Quantitative Risk Management				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon Mon (odd), Wed, Fri, and 2.00 pm Fri			
The module introduces the concept of financial risk and discusses the importance of its regulation. The emphasis is laid on the popular risk measure Value at Risk (VaR). After a brief discussion on asset returns, various modelling techniques - ranging from the simple Historical Simulation to the more advanced ARMA and GARCH models - are presented and applied for the calculation of VaR using real financial data. The aim of this module is to provide a solid basis in risk management for those students considering a career in finance.				
Pre-requisite(s):	Before taking this module you must pass MT2504 and pass MT2508			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (x 10 weeks), 5 tutorials and 5 practical sessions.			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V M Popov			
Module teaching staff:	Dr V Popov			

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MT4552 Mathematical Biology 1

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3504			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework (Class Test) = 10%			
Re-assessment pattern:	Take-Home Examination = 100%			
Module coordinator:	Prof M A J Chaplain			
Module teaching staff:	Prof M Chaplain, Dr T Lorenzi			

MT4553 Theory of Electric and Magnetic Fields

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Mon (odd weeks), Wed, Fri			
The module will consider the mathematical and physical principles that describe the theory of electric and magnetic fields. It will first describe the basic principles of electrostatics and magneto-statics and following this electrodynamics. Next Maxwell's equations are described along with the properties of electro-magnetic waves in a variety of media. Finally an application to the area of plasma physics is carried out through considering the orbits of charged particles in a variety of spatially and time varying magnetic fields.				
Pre-requisite(s):	Before taking this module you must pass MT2503 and pass MT2506 and pass MT3504			
Anti-requisite(s)	You cannot take this module if you take PH3007			
Learning and teaching methods of delivery:	Weekly contact: 2.5 hours of lectures (x 10 weeks), 1-hour tutorial (x 10 weeks)			
	Scheduled learning: 35 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework (class test) = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof D H Mackay			
Module teaching staff:	Prof D Mackay			

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MT4599 Project in Mathematics / Statistics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the final year of a BSc/MA Honours degree programme in the School			
Planned timetable:	none			
The student will choose a project from a list published annually although a topic outwith the list may be approved. Students will be required to report regularly to their supervisor, produce a substantial written report, submitted by the end of April, and give a presentation.				
Learning and teaching methods of delivery:	Weekly contact: Typically and on average, 20 mins of project supervisions per week over whole year.			
	Scheduled learning: 8 hours		Guided independent study: 142 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%: Project = 80%, Presentation = 20%			
Re-assessment pattern:	Resubmission of project = 100%			
Module coordinator:	Prof C E Parnell			
Module teaching staff:	Prof C Parnell			

MT4607 Generalised Linear Models and Data Analysis				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT2503 and pass MT2508			
Anti-requisite(s):	You cannot take this module if you take MT5753 or take MT5761			
Co-requisite(s):	You must also take MT3501			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 8 tutorials over the semester			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework: Project = 20%			
Re-assessment pattern:	2-hour Written Examination = 80%, Coursework: Project = 20%			
Module coordinator:	Dr L A S Scott-Hayward			
Module teaching staff:	Dr L Scott-Hayward			

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MT4608 Sampling Theory

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
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.				
Pre-requisite(s):	If not already passed you must take MT3501 or take MT3503 or take MT3504 or take 1 module from level 3 matching mn. Before taking this module you must pass MT2004 or pass MT2508			
Co-requisite(s):	If not already passed you must take MT3501 or take MT3503 or take MT3504 or take 1 module from level 3 matching MN			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 8 tutorials over the semester.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 85%, Coursework: Project = 15%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J B Illian			
Module teaching staff:	Dr J Illian			

MT4609 Multivariate Analysis

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3507			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module teaching staff:	Dr G Minas			

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MT4614 Design of Experiments				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT2508 and pass MT3501			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and either tutorial or practical (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 10%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 80%, Presentation = 10%, Coursework = 10%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof R A Bailey			
Module teaching staff:	Prof R Bailey			

MT4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The dissertation must consist of approximately 6,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Pre-requisite(s):	The student requires a letter of agreement			
Anti-requisite(s)	Cannot take more than 30 credits in other dissertation/project modules			
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module teaching staff:	As per Letter of Agreement			

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MT4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.				
Pre-requisite(s):	The student requires a letter of agreement			
Anti-requisite(s)	May not take more than 30 credits in other dissertation / project modules			
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			
Module teaching staff:	As per Letter of Agreement			

MT5611 Advanced Symbolic Computation				
SCOTCAT Credits:	20	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am Mon (odd weeks), Wed and Fri			
This module aims to enable students to use a computer as a tool in their other modules and to turn naturally to a computer when solving mathematical problems. The module aims to illustrate the following points: computation allows one to conduct mathematical experiments; computation allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The computer is not intelligent; intelligence comes from the user. The user thinks, the user interprets, the computer calculates. Students will undertake a more substantial project than that required for MT4111.				
Pre-requisite(s):	Before taking this module you must pass at least 4000-level mt module			
Anti-requisite(s)	You cannot take this module if you take MT4111			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 practical session (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 55%, Practical Examinations = 0%, Coursework = 45%			
	As used by St Andrews: 2-hour Written Examination = 55%, Coursework: Project = 45%			
Re-assessment pattern:	2-hour Written Examination = 55%, Coursework: Project = 45%			
Module teaching staff:	TBC			

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MT5751 Estimating Animal Abundance				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must (pass MT3507 or pass MT3508) and pass one 4000-level mt module			
Learning and teaching methods of delivery:	Weekly contact: 1.5 hrs lecture, 1 hr practical, 0.5 hr tutorial (weeks 1 - 10)			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Mr R Glennie			

MT5758 Applied Multivariate Analysis				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu			
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.				
Pre-requisite(s):	The student must have been accepted on to mmath statistics or mmath mathematics programmes			
Anti-requisite(s)	You cannot take this module if you take MT4609			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), and 4 tutorials and 4 project group meetings over the semester.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J B Illian			
Module teaching staff:	Dr J Illian			

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MT5761 Statistical Modelling

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Mon, Tues, Thur, Fri 3:00 - 4:00 (lectures), Tues, Thur 4:00 - 5:00 (practicals)			
	<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>			
Pre-requisite(s):	Undergraduates must have passed at least one of MT4113, MT4527, MT4528, MT4530, MT4531, MT4537, MT4539, MT4606, MT4608, MT4609, MT4614.			
Anti-requisite(s)	You cannot take this module if you take MT4607 or take MT5753			
Learning and teaching methods of delivery:	Weekly contact: 4 lectures (x 5 weeks), 2 practicals (x 5 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr V M Popov			
Module teaching staff:	Dr V Popov			

MT5763 Software for Data Analysis

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Planned timetable:	Mon, Tues, Fri 3:30 - 4:30 (lectures). Mon, Tues, Fri 4:30 - 5:30 (Practicals)			
	<p>This module covers the practical computing aspects of statistical data analysis, focussing on packages most widely used in the commercial sector (R, SAS, SPSS & Excel). We cover the accessing, manipulation, checking and presentation of data (visual and numerical). We fit various statistical models to data, with subsequent assessment, interpretation and presentation. Good practice and 'reproducible research' is covered, as is computer intensive inference and big data considerations. This module is a short intensive course and is a core, preliminary, requirement for the MSc in Applied Statistics and Datamining and the MSc in Data Intensive Analysis. It covers material essential for study of the more advanced statistical methods encountered in subsequent modules.</p>			
Pre-requisite(s):	Pass in MT1007 or MT3507 or MT3508 or be taking MT5762			
Anti-requisite(s)	You cannot take this module if you take MT5756			
Learning and teaching methods of delivery:	Weekly contact: Three 2-hour lecture/practical classes (x 5 weeks)			
	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:	Coursework = 100%			
Module coordinator:	Dr C R Donovan			
Module teaching staff:	Dr C Donovan			

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MT5764 Advanced Data Analysis				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Mon 12:00-1:00 Weeks 2, 4, 5, 8, 10 Tues, Thur 12:00-2:00, Weeks 1-10 (lectures) Tues 2:00 - 3:00 Weeks 2-9 (practicals)			
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.				
Pre-requisite(s):	Undergraduates must pass MT4607 or MT5753 or MT5761			
Anti-requisite(s):	You cannot take this module if you take MT5757			
Learning and teaching methods of delivery:	Weekly contact: 2.5 hours of lectures lectures (Weeks 1 - 10) and 8 practicals over the semester.			
	Scheduled learning: 33 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 teaching staff:	TBC			

MT5765 Medical Statistics				
SCOTCAT Credits:	15	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10:00 - Mon (odd weeks), Wed, Fri			
This module will cover a number of topics in medical statistics, that are important areas both in terms of methodological development and application. The main topic covered will be Survival Analysis, with others selected from Meta-analysis, Power calculations, Prospective vs Observational studies, Sequential analyses, Clinical trials.				
Pre-requisite(s):	Before taking this module you must pass MT3507 or pass MT3508			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (x 10 weeks), 1 tutorial (x 10 weeks)			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 65%, Practical Examinations = 0%, Coursework = 35%			
	As used by St Andrews: Coursework = 35%, 2-hour Written Examination = 65%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof A G Lynch			
Module teaching staff:	Prof A Lynch			

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MT5802 Advanced Analytical Techniques

SCOTCAT Credits:	20	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3503			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C V Tran			
Module teaching staff:	Dr C Tran			

MT5806 Advanced Computational Techniques

SCOTCAT Credits:	20	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3802 and pass MT4112			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures (weeks 1 - 10) and a typical average of 0.5 hours of project supervisions (weeks 2 - 11)			
	Scheduled learning: 25 hours		Guided independent study: 175 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of projects = 100%			
Module coordinator:	Dr S J Brooks			
Module teaching staff:	Dr S Brooks			

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MT5809 Advanced Fluid Dynamics				
SCOTCAT Credits:	20	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
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.				
Pre-requisite(s):	Before taking this module you must pass MT4509			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J N Reinaud			
Module teaching staff:	Dr Jn Reinaud			

MT5810 Advanced Solar Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu			
The object of this module is to describe the magnetohydrodynamic processes at work in the Sun, using modern techniques of applied mathematics, and to discuss the latest theories in relation to aspects of current research within the School.				
Pre-requisite(s):	Before taking this module you must pass MT4510			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof C E Parnell			
Module teaching staff:	Prof C Parnell			

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MT5821 Advanced Combinatorics

SCOTCAT Credits:	20	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
Combinatorics underlies and interacts many topics in discrete mathematics including group theory, statistical design, and statistical mechanics, as well as being a lively subject in its own right. The module will give students a good grounding in the techniques and will engage students with research-level problems. It is designed to make a wide area of combinatorics available to students.				
Pre-requisite(s):	Before taking this module you must pass MT4514 or pass MT4516			
Learning and teaching methods of delivery:	Weekly contact: 2.5-hour lectures (weeks 1 - 10) and 1-hour tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof P J Cameron			
Module teaching staff:	Prof P Cameron			

MT5824 Topics in Groups

SCOTCAT Credits:	20	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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, 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.				
Pre-requisite(s):	Before taking this module you must pass MT4003			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11).			
	Scheduled learning: 45 hours		Guided independent study: 155 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr C P Bleak			
Module teaching staff:	Dr C Bleak			

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MT5825 Measure and Probability Theory				
SCOTCAT Credits:	20	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
This module introduces some of the powerful techniques and ideas of modern mathematical analysis and mathematical probability theory that are important both in analysis in its own right and in its many applications in mathematics and science. The module will include topics such as: measure theory, the mathematical foundations for probability theory, law of large numbers. Mathematical analysis and the use of probabilistic methods in analysis is one of the active research areas within the School, and the choice of topics will reflect current activity.				
Pre-requisite(s):	Before taking this module you must pass MT3502 or pass MT4004			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M J Todd			
Module teaching staff:	Dr M Todd			

MT5830 Hyperbolic Geometry				
SCOTCAT Credits:	20	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
We study two dimensional hyperbolic space, which is a fundamental example of a non-Euclidean metric space. Hyperbolic space has a rich structure and many counter intuitive properties and this module will focus on the geometry of this space, including a detailed study of the geodesic structure, the group of isometries, and the actions of Fuchsian groups which lead to beautiful tilings and fractal limit sets. We will combine ideas from analysis, geometry and group theory, with a strong emphasis on visual intuition.				
Pre-requisite(s):	Before taking this module you must pass MT2505 and pass MT3502 and pass MT3503			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr J M Fraser			
Module teaching staff:	Dr J Fraser			

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MT5831 Advanced Bayesian Inference

SCOTCAT Credits:	20	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3507 or pass MT3508			
Anti-requisite(s)	You cannot take this module if you take MT4531			
Learning and teaching methods of delivery:	Weekly contact: 24 lectures and 7 practical classes over semester.			
	Scheduled learning: 31 hours		Guided independent study: 169 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr M Papatomas			

MT5836 Galois Theory

SCOTCAT Credits:	20	SCQF Level 11	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass MT3505 or pass MT4517			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 10 tutorials/practical classes over semester.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour Written Examination = 100%			
Re-assessment pattern:	2.5-hour Written Examination = 100%			
Module coordinator:	Dr M Quick			

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MT5852 Mathematical Biology 2				
SCOTCAT Credits:	20	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass MT3504			
Learning and teaching methods of delivery:	Weekly contact: 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 90%, Coursework (Class Test) = 10%			
Re-assessment pattern:	Take-Home Examination = 100%			
Module coordinator:	Dr T Lorenzi			

MT5990 Independent Study Module				
SCOTCAT Credits:	20	SCQF Level 11	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students on an MMath, MPhys or MSc degree programme in the School			
Planned timetable:	To be arranged.			
This module provides the opportunity for a student to study an Advanced topic as a reading course under the supervision of a member of staff. The topic will be disjoint from those available in other modules.				
Pre-requisite(s):	In taking this module undergraduate students must have permission of head of school.			
Learning and teaching methods of delivery:	Weekly contact: Typically 1 hour project supervisions.			
	Scheduled learning: 12 hours		Guided independent study: 188 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of coursework = 100%			
Module coordinator:	Dr A L Wilmot-Smith			
Module teaching staff:	Dr A Wilmot-Smith			

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MT5991 Professional Skills for Mathematical Scientists				
SCOTCAT Credits:	30	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on an MSc Postgraduate programme or, exceptionally, on an MMath or MPhys Honours degree programme in the School			
Planned timetable:	To be arranged.			
This module encompasses a range of skills, both generic and topic specific, together with taught components aimed at providing an appreciation of both breadth and depth of research areas in Pure or Applied Mathematics. The precise programme of study, together with the identification of the relevant software expertise required, will be determined in consultation with the student's supervisor.				
Learning and teaching methods of delivery:	Weekly contact: Varies. Typically 1 project supervision per week over whole year.			
	Scheduled learning: 24 hours		Guided independent study: 276 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Resubmission of coursework = 100%			
Module coordinator:	Dr J D Mitchell			
Module teaching staff:	Dr J Mitchell			

MT5999 Advanced Project in Mathematics / Statistics				
SCOTCAT Credits:	40	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the final year of an MMath or MPhys Honours programme in the School			
Planned timetable:	To be arranged.			
This is a more substantial project which, for MMath students, will replace the existing Honours project. The project will be chosen from an approved list of topics. The student will be required to investigate a topic in some depth, submit a report by the end of April and give a presentation.				
Pre-requisite(s):	The student must have been accepted to an mphys or mmath programme			
Learning and teaching methods of delivery:	Weekly contact: Typically and on average, 40 mins of project supervisions per week over whole year			
	Scheduled learning: 16 hours		Guided independent study: 384 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%: Project = 80%, Presentation = 20%			
Re-assessment pattern:	Resubmission of project = 100%			
Module coordinator:	Prof C E Parnell			
Module teaching staff:	Prof C 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:	2018/9		
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.		
Planned timetable:	To be arranged.		
<p>Medical Science Honours 1 and 2 form the second turn of the curriculum spiral taking an integrated approach to the scientific basis of medicine at an Honours level. These modules will build upon the material delivered in the preceding Foundations of Medicine 1 and 2 modules. Medicine Honours 1 will cover the structure and functions of the cardiovascular and respiratory systems. The anatomy of the thorax will be studied by dissection. The disease mechanisms and therapy of disorders pertinent to these body systems will be introduced and relevant clinical problems and clinical skills will provide clinical context. The ethical, moral and behavioural aspects relevant to these systems will be discussed. MD3001 also provides system contextualised learning in the vertical themes of infection, public health and health psychology, as well as being part of the research skills matrix which prepares students for the critical review of published data and scientific writing.</p>			
Pre-requisite(s):	Before taking this module you must pass MD2001 and pass MD2002		
Learning and teaching methods of delivery:	Weekly contact: On average 10 lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning		
	Scheduled learning: 250 hours	Guided independent study: 350 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Coursework will comprise a written examinations totaling 25% of the module grade.		
Re-assessment pattern:	2 x 1.5-hour Written Examinations = 100%		
Module coordinator:	Dr W Dhaliwal		

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MD3002 Medicine: Honours 2 (Reproductive, Renal and Gastrointestinal Systems)			
SCOTCAT Credits:	60	SCQF Level 9	Semester 2
Academic year:	2018/9		
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.		
Planned timetable:	To be arranged.		
<p>Medicine Honours 2 will: - provide in depth coverage of the structure and functions of the reproductive, renal and gastrointestinal systems - study the anatomy of the abdomen and pelvis by dissection - cover the disease mechanisms and therapy of the disorders pertinent to these body systems - use relevant clinical problems to provide the clinical context - integrate the ethical, moral and behavioural aspects relevant to these systems. MD3002 also provides system contextualised learning in the vertical themes of microbiology, public health and healthy psychology, as well as being part of the research skills matrix which prepares students for the critical review of published data and scientific writing.</p>			
Pre-requisite(s):	Before taking this module you must pass MD2001 and pass MD2002		
Learning and teaching methods of delivery:	<p>Weekly contact: 10 lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning.</p>		
	Scheduled learning: 219 hours	Guided independent study: 381 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%</p>		
	<p>As used by St Andrews: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Attainment of competence in clinical skills appropriate to this stage of a medical curriculum as demonstrated in a pass/fail objective structured clinical exam (OSCE). Coursework will comprise a written examination totaling 25% of the module grade.</p>		
Re-assessment pattern:	2 x 1.5-hour Written Examinations = 100%		
Module coordinator:	Dr R Cruickshank		

MD4001 Medicine: Honours 3 (Central Nervous System and Endocrine System)

SCOTCAT Credits:	60	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.			
Planned timetable:	To be arranged.			
<p>This module continues the strategy of the spiral curriculum by revisiting foundation knowledge and progressing to the most complex integrative physiological systems namely the central nervous and endocrine systems. Medicine Honours 3 will: - provide in depth coverage of normal structure and function of the CNS and endocrine systems - study the anatomy of the head and neck by dissection - introduce diseases and possible therapies pertinent to these important control systems - present case studies associated with the CNS and endocrine systems to highlight appropriate clinical skills for the identification of neurological and endocrinological disorders - utilise audiovisual, literary and theoretical works to integrate ethical issues and behavioural science with clinical medicine - consider the evidence base for medicine and develop critical appraisal skills.</p>				
Pre-requisite(s):	Before taking this module you must pass MD3001 and pass MD3002			
Learning and teaching methods of delivery:	Weekly contact: On average 10 lectures and 6 hours of seminars/tutorials/practicals each week. Students typically spend two hours a week on clinical case studies and clinical skills, in addition to some whole day placements in clinical settings. Up to 6 hours per week of directed self-learning.			
	Scheduled learning: 250 hours		Guided independent study: 350 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Coursework will comprise a written examination totaling 25% of the module grade.			
Re-assessment pattern:	2 x 1.5-hour Written Examinations = 100%			
Module coordinator:	Dr R C Davies			

MD4002 Medicine: Honours 4 (Student-selected component)

SCOTCAT Credits:	40	SCQF Level 10	Semester	2
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass MD3001 and pass MD3002			
Learning and teaching methods of delivery:	Weekly contact: To be arranged.			
	Scheduled learning: 5 hours		Guided independent study: 395 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Lab/data based research or critical review project assessed by dissertation (100%) and oral presentation (0% of grade but which must be passed).			
Re-assessment pattern:	re-assessment work: (dissertation if failed at original sitting; oral presentation if failed at original sitting) may be done over the summer months and submitted at the resit diet.			
Module coordinator:	Dr J A Tello			

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MD4003 Medicine: Honours 5 (Applied Medical Science)			
SCOTCAT Credits:	20	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.		
Planned timetable:	To be arranged.		
<p>This module is delivered in small group format, and runs in parallel with the student selected module MD4002 in the second semester. Over the semester individual student contact hours are 25 delivered in 5 cycles. Each student attends for one full day every two weeks. The morning is divided into three parts: integrated clinical scenarios, and a combination of two of the following; a revision tutorial, workshop or skills practical. The afternoon is divided into two parts: feedback from morning's work and a further session which may be a simulation exercise, workshop or practical. The feedback session enables students to improve their performance and also includes discussion relating to the simulated cases. New advanced skills are introduced to stimulate clinical development. Skills include ABCDE approach to patient management, breast examination, cannulation fluid management and safe prescribing. Clinical decision making and problem reasoning workshops are designed to develop clinical reasoning powers. The series of revision topics relate to patient investigations such as haematology, clinical chemistry and ECG. Anatomy relating to clinical examination and imaging is also reviewed. Revisiting these topics in a spiral curriculum reinforces areas previously covered. One cycle is dedicated to ward simulations where medical students work in multidisciplinary teams along with the nursing and pharmacy students from Dundee and Aberdeen.</p>			
Pre-requisite(s):	Before taking this module you must pass MD3001 and pass MD3002		
Learning and teaching methods of delivery:	Weekly contact: 5 hours in 5 clinical cycles over the semester as well as some whole day placements in clinical settings.		
	Scheduled learning: 50 hours	Guided independent study: 150 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%		
	As used by St Andrews: 1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration (100%)		
Re-assessment pattern:	1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration (100%)		
Module coordinator:	Dr P Bjelogrljic		

School of Modern Languages

Arabic (AR) modules

AR3401 Media Arabic 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	Wed 12.00 - 1.00 pm, Thu 12.00 - 1.00 pm			
This module consolidates the grammar and vocabulary learned during Sub-Honours by introducing students to the language of the Arabic media through texts, audio and audio-visual material. Students will be offered basic training in comprehension and translation of contemporary Media Arabic in both directions, and will also compose their own written material and give oral presentations in Arabic.				
Pre-requisite(s):	Before taking this module you must pass AR2002			
Learning and teaching methods of delivery:	Weekly contact: 2 hours - mixture of lectures, seminars and tutorials and 1 surgery hour			
	Scheduled learning: 20 hours		Guided independent study: 150 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr F Caiani			
Module teaching staff:	Dr F Caiani, TBC			

AR3402 Media Arabic 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Wed 12.00 - 1.00 pm, Thu 12.00 - 1.00 pm			
This module consolidates the grammar and vocabulary learned during Junior Honours semester 1, through the systematic analysis of the language of the Arabic media. Contemporary texts, audio and audio-visual material will be used. Students will be offered basic training in comprehension and translation of Media Arabic in both directions, and will also compose their own written material and give oral presentations in Arabic.				
Pre-requisite(s):	Before taking this module you must pass AR2002. N taking this module you must have taken AR3401 or undertaken equivalent study abroad.			
Learning and teaching methods of delivery:	Weekly contact: 2 hours - mixture of lectures, seminars and tutorials and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 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 teaching staff:	TBC			

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

AR3421 Arabic Short Stories 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am Wed, 11.00 am Thu			
This module will study linguistic, literary and cultural aspects of Arabic literary writing with readings from modern Arabic short stories. The module is designed to improve and broaden students' knowledge of Arabic while also including a more analytical and cultural component. Students will be required to translate passages of text and comment on difficulties of literary translation, in the context of a background understanding of the literary and cultural dimensions of the texts.				
Pre-requisite(s):	Before taking this module you must pass AR2002			
Anti-requisite(s)	Null			
Co-requisite(s):	You must also take AR3401			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mrs C M Cobham			
Module teaching staff:	Ms C Cobham			

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AR3422 Arabic Short Stories 2

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am Wed, 11.00 am Thu			
This module will study linguistic, literary and cultural aspects of Arabic literary writing with readings from modern Arabic short stories. The module is designed to improve and broaden students' knowledge of Arabic while also including a more analytical and cultural component. Students will be required to translate passages of text and comment on difficulties of literary translation, in the context of a background understanding of the literary and cultural dimensions of the texts.				
Pre-requisite(s):	Before taking this module you should take AR3401 or have undertaken equivalent study abroad in semester 1			
Co-requisite(s):	You must also take AR3402			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mrs C M Cobham			
Module teaching staff:	Ms C Cobham			

AR3461 Key Texts in Classical Arabic Literature and Culture 1

SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	2.00 pm Mon, 2.00 pm Thu			
The module aims to enable students to understand the development and terminology of aspects of classical Arabic scholarship, to help them understand the structures that underpin the Arabic language, and to support them through encounters with a representative selection of important classical Arabic sources.				
Pre-requisite(s):	Before taking this module you must pass AR2002			
Co-requisite(s):	You must also take AR3401			
Learning and teaching methods of delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Elmaz			
Module teaching staff:	Dr O Elmaz or TBC			

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AR3462 Key Texts in Classical Arabic Literature and Culture 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	2.00 pm Mon, 2.00 pm Thu			
The module aims to enable students to understand the development and terminology of aspects of classical Arabic scholarship, to help them understand the structures that underpin the Arabic language, and to support them through encounters with a representative selection of important classical Arabic sources.				
Pre-requisite(s):	Before taking this module you must pass AR3401. The pre-requisite may be replaced by equivalent study abroad.			
Co-requisite(s):	You must also take AR3402			
Learning and teaching methods of delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	TBC			

AR4401 Advanced Arabic 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 or 4.00 pm Mon, 3.00 or 4.00 pm Thu (or 5.00 pm Thu in even weeks)			
This module will build upon the skills gained in the third year modules in Arabic. Emphasis will be placed on Arabic grammar, translation into and out of Arabic and free composition in Arabic. Students will also give oral presentations in Arabic. A variety of modern and contemporary materials representing different facets of Arab culture will be used to broaden students' knowledge of the language.				
Pre-requisite(s):	Student must have completed AR3401, AR3402 or equivalent study abroad			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical (Oral Presentation) = 10%, Coursework = 30%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mrs C M Cobham			
Module teaching staff:	Ms C Cobham, Dr F Caiani, Ms Dina Alafranji, Mr M Whitehouse			

AR4402 Advanced Arabic 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm or 4.00 pm Mon, 3.00 pm or 4.00 pm Thu (or 5.00 pm Thu in even weeks)			
This module will build upon the skills gained in AR4401. Emphasis will be placed on Arabic grammar, translation into and out of Arabic and free composition in Arabic. Students will also give oral presentations in Arabic. A variety of modern and contemporary materials representing different facets of Arab culture will be used to broaden students' knowledge of the language.				
Pre-requisite(s):	If not already passed you must take AR4401			
Anti-requisite(s)	You cannot take this module if you take AR4205			
Co-requisite(s):	If not already passed you must take AR4401			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical (Oral Presentation) = 10%, Coursework = 30%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Ms C Cobham, Dr F Caiani, Ms Dina Alafanji, Mr M Whitehouse			

AR4421 Exile and Identity				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm Tue, 2.00 pm Thu			
This module will study linguistic, literary and cultural aspects of recent Arabic fiction, with readings from short stories mainly written by men and women writers from the Gulf and North Africa. The emphasis will be on the treatment of exile and identity within fiction mainly from the cultural margins of the Arab world, with secondary readings in English and class discussion.				
Pre-requisite(s):	Undergraduate - before taking this module you should pass pass AR3401 or AR3402 or have equivalent study abroad			
Anti-requisite(s)	You cannot take this module if you take AR4205			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour .			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mrs C M Cobham			
Module teaching staff:	Ms C Cobham			

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AR4422 Novellas				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mrs C M Cobham			
Module teaching staff:	Ms C Cobham			

AR4461 Classical Arabic Poetry				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Learning and teaching methods of delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr O Elmaz			
Module teaching staff:	Dr O Elmaz or TBC			

AR4462 Classical Arabic Prose				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Admission to honours arabic			
Learning and teaching methods of delivery:	Weekly contact: 2 hours (lectures, seminars and tutorials) and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	TBC			

AR4999 Dissertation in Arabic Studies				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
A dissertation of about 10,000 words on an approved topic in Arabic and Middle East Studies, supervised by an appropriate member of staff.				
Pre-requisite(s):	Available only to students in the final year of the honours programme			
Anti-requisite(s)	In taking this module, you cannot take a dissertation in another subject.			
Co-requisite(s):	You must also take AR4401 and take AR4402			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars and approximately 8 contact hours with supervisor in total over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Mrs C M Cobham			
Module teaching staff:	As appropriate			

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Comparative Literature (CO) modules

CO3001 Comparative Literature: Contours and Constellations I				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
	This module situates and interrogates the discipline of Comparative Literature and explores a range of theories and practices. Key areas will typically be drawn from: influence and reception; world literature; translation studies; adaptation studies; digital humanities; ways of reading. Comparative Literature will typically also be discussed in relation to fields such as postcolonialism, area studies, cultural studies and interdisciplinarity. Students will be encouraged to formulate their own disciplinary definitions.			
Pre-requisite(s):	Permission of the comparative literature honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Prof M A Hutton			
Module teaching staff:	Team taught			

CO3003 Comparative Literature: Contours and Constellations 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	Tues 14:00 - 15:30			
	This module situates and interrogates the discipline of Comparative Literature, exploring a range of theories and practices which complement those covered in CO3001. Key areas will be drawn from: influence and reception; world literature; translation studies; adaptation studies; digital humanities; ways of reading. Comparative Literature will typically also be discussed in relation to fields such as postcolonialism, areas studies, cultural studies and interdisciplinarity. Students will be encouraged to formulate their own disciplinary definitions.			
Pre-requisite(s):	Before taking this module you must pass CO3001			
Learning and teaching methods of delivery:	Weekly contact: One 90-minute seminar			
	Scheduled learning: 17 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 40%, 24-hour Take-home Examination = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E F Bond			
Module teaching staff:	Prof M-A Hutton, Dr E Bond, Dr C Lawson, Dr K Jones, Dr E Kefala, Dr S Talajooy, Dr R MacKenzie			

CO3020 Cultural Memory and Literature

SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
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 m'Úmoire. 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>				
Pre-requisite(s):	Permission of the comparative literature honours adviser			
Learning and teaching methods of 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 coordinator:	Dr S Caserta			
Module teaching staff:	Team taught			

CO3021 Crossing the Mediterranean

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged			
<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>				
Pre-requisite(s):	Permission of the comparative literature honours adviser			
Learning and teaching methods of 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 coordinator:	Prof D E Duncan			
Module teaching staff:	Team taught			

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CO4002 The Literary Canon				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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?'				
Pre-requisite(s):	Before taking this module you must pass CO3002. If not already passed you must take CO4003			
Co-requisite(s):	If not already passed you must take CO4003			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P J Lennon			
Module teaching staff:	Team taught			

CO4024 Performing Early-Modern Sexualities				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
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 Terze rime, Catalina Erauso's The Lieutenant Nun, The Transvestite Memoirs of the Abbé de Choisy, and John Lyly's Gallathea. Some theory will also be studied, including short excerpts from Butler, Foucault and Laqueur.				
Pre-requisite(s):	Permission of the comparative literature honours adviser.			
Learning and teaching methods of 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 coordinator:	Dr J T Prest			
Module teaching staff:	Team taught			

CO4027 Folk and Fairy Tales				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Learning and teaching methods of 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 coordinator:	Dr V C Turner			

CO4028 Great Works and their Adaptations				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>The module explores the relationship between a number of 'great works' and their adaptations (into for instance, film, graphic novel, opera, poetry, play, etc.). Various possible relationships between the original texts and their adaptations will be examined, as will definitions and terms: when, and why, might a reworking of a text no longer qualify as an 'adaptation'? What do we mean by an 'original' text and by a 'great work'? How do we judge the success or failure of an adaptation? Students will come face to face with some of these issues first hand as they create and reflect upon their own adaptations.</p>				
Pre-requisite(s):	Permission of the comparative literature honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and an optional surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof M A Hutton			
Module teaching staff:	Team taught			

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CO4029 Science and Culture in European Modernisms				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
<p>The relationship between the sciences and the humanities is a fascinating area of studies. The continuous advancement and expansion of technology and science, that aimed to promote societal 'happiness' over the last two hundred years, has created tremendous opportunities for mobility, communication and wellbeing, eliciting enthusiastic responses as well as preoccupations across intellectual elites and society. This module will explore the interstice between the sciences and the humanities, two areas that traditionally belong by default to two discrete paradigms of knowledge. We will study themes such as life in the metropolis, the phenomenon of the 'crowd' and the effects it had on readership, the influences of medical sciences and technology on culture by reading works by authors such as G. Apollinaire (France), J. Ortega y Gasset (Spain), G. Simmel and E. Canetti (Germany), F. T. Marinetti (Italy).</p>				
Pre-requisite(s):	Permission of the comparative literature honours adviser. Before taking this module you must take CO2001 or take CO2002			
Learning and teaching methods of delivery:	Weekly contact: 1.5-hour lecture or seminar per week. 1-hour evening seminar 3-4 times in semester.			
	Scheduled learning: 29 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:	Coursework = 100%			
Module coordinator:	Dr R M Riccobono			
Module teaching staff:	Dr R Riccobono, Dr D Evans, Dr A Cusack, Prof J Larios			

CO4098 Short Dissertation in Comparative Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you should pass CO3001 and have the permission of the comparative literature honours adviser			
Anti-requisite(s)	Cannot take any other 30-credit dissertation module.			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour workshops and 4 contact hours with supervisor.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Prof M A Hutton			

CO4099 Long Dissertation in Comparative Literature				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	not applicable.			
<p>The year-long dissertation offers students the possibility to engage in advanced independent study on a topic in Comparative Literature on which they already have adequate basic knowledge and for which a suitable supervisor, or supervisors, can be found. The dissertation will, as a rule, consist of a study of a given body of primary or theoretical texts analysed in a comparatist framework. The topic must be agreed in advance by the Comparative Literature Honours Adviser following a favourable report from the proposed supervisor(s). The dissertation length is 10 000 words and is normally written in English. In addition to individual supervision, training sessions are offered on research methods, academic writing, and presentation.</p>				
Pre-requisite(s):	Before taking this module you must pass CO3002. For students who have spend a semester abroad, CO3001 may replace CO3002. Approval of the comparative literature hons advisor			
Anti-requisite(s)	Cannot take any other dissertation module			
Learning and teaching methods of delivery:	Weekly contact: 3 workshops in Semester 1. 4 supervisory sessions per semester.			
	Scheduled learning: 11 hours		Guided independent study: 290 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: 10,000-word Dissertation = 100%			
Re-assessment pattern:	Resubmission of dissertation = 100%			
Module coordinator:	Prof M A Hutton			

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French (FR) modules

FR3001 French Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon			
	The module aims to give a fundamental training at Honours level in written and aural comprehension skills, objective r?sum? 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.			
Pre-requisite(s):	Before taking this module you must pass FR2022 or pass FR2032 or pass FR2202			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E R Laugt			

FR3002 French Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon			
	Building on FR3001, the module aims to complete foundational training at Honours level, taking in written and aural comprehension skills, analytical r?sum? 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.			
Pre-requisite(s):	If not already passed you must take FR3001			
Co-requisite(s):	If not already passed you must take FR3001			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr G P Bowd			

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FR3021 An Introduction to the French Classical Period				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module aims to give a general introduction to the broader concerns of the literature of seventeenth-century France, looking at elements of development in the literary genres, while relating them to fundamental changes in the society of the time. Prescribed texts will be drawn from authors such as Corneille, Racine, Molière, Madame de la Fayette and La Fontaine.				
Learning and teaching methods of 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:	2-hour Written Examination = 60%, Coursework = 40%			
Module coordinator:	Dr J S O Carson			

FR3077 Contemporary French Fiction				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
The aim of this module is to introduce students to works of contemporary French fiction. Five works of fiction (all published within the last 10 years; several of them more recently) will be studied in the context of a range of theoretical and pedagogic questions. What do we mean by 'contemporary fiction' (or indeed 'fiction')? What is 'the contemporary'? Is national literature still an important phenomenon in a world of translation and world literature? How do we go about choosing texts to study / teach on a contemporary module of this kind? Can a canon of emerging texts and / or authors already be identified? Do these texts share specifically 'contemporary' traits, e.g. their relationship to socio-political 'reality', stylistic or generic conventions? How might we judge if these are great, or even good, works, and does it matter?				
Pre-requisite(s):	Permission of the french honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof M A Hutton			

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FR3080 Intellectuals in Modern France				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged			
This module explores the role of intellectuals in modern France (from the end of the 19th century until today). We will examine the 'birth' of the intellectual during the Dreyfus Affair and evaluate the impact that intellectuals have had in the political and socio-cultural history of twentieth-century France. The following aspects will be covered: the definition and role of the intellectual, conflicts which have emerged between intellectuals in the twentieth century, the involvement of intellectual figures in the political sphere, the structures of the cultural and intellectual life in France, the role played and to be played by intellectuals in contemporary France.				
Pre-requisite(s):	Before taking this module you must pass FR2202			
Learning and teaching methods of delivery:	Weekly contact: 1-Hour lecture (x6 weeks), 1-hour seminars (x11 weeks)			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: Coursework (inc Presentation = 15%) = 40%, 3-hour Written Examination = 60%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr E Hugueny-Léger			

FR3101 French Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
The objective of the module is language learning and cultural familiarisation through a work placement in a French-speaking country. Placements will be as Language Assistants in schools or on other assignments approved by the department. Formal learning and assessment will be through: (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.				
Pre-requisite(s):	In taking this module you must have admission to a french honours programme with integrated year abroad			
Anti-requisite(s)	In taking this module you must not be on an erasmus exchange			
Learning and teaching methods of 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 coordinator:	Dr V C Turner			

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FR4103 Translation Methodology 1

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass FR3002 or pass FR3001. Students are exempt from this pre-requisite if they have studied abroad for a year or a semester.			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J S O Carson			

FR4104 Translation Methodology 2

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass FR4103			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr J S O Carson			

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FR4105 Communication Skills in French 1			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
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.			
Pre-requisite(s):	Students who have completed a period of study abroad can have the pre-requisites waived. . Before taking this module you must pass FR3001 or pass FR3002		
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.		
	Scheduled learning: 20 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr E Herdman		

FR4106 Communication Skills in French 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
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.			
Pre-requisite(s):	If not already passed you must take FR4105		
Co-requisite(s):	If not already passed you must take FR4105		
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.		
	Scheduled learning: 22 hours	Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr E Herdman		

FR4110 Translating French Opera				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
Students will translate the libretto for Gluck's Paris version of his opera Orphée et Eurydice (1774) into contemporary English. The results will form the basis for the English text to be used in a staged production of the work by the student Opera Society in October 2019. Key methodological decisions will be taken by the group in consultation with the opera director. Issues to be addressed include comprehension, accuracy, translation loss, modernization, stressed and unstressed syllables and the desirability (or not) of humour. At the end of the module there will also be a sung recital featuring our translations. Musical expertise is welcome but not essential.				
Pre-requisite(s):	Permission of the french honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 29 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J T Prest			
Module teaching staff:	Dr J Prest			

FR4111 Discovering the Renaissance: Imitation, Interpretation and Imagination				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
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. 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.				
Learning and teaching methods of 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:	2-hour Written Examination = 60%, Coursework = 40%			
Module coordinator:	Dr E Herdman			

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FR4117 Politics, Propaganda and Mythmaking in Medieval France				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>The boundaries between fact and fiction, history and fantasy in medieval texts are notoriously difficult to determine. In our own so-called 'post-truth' age, it has never been more relevant to think about the processes by which tales, people, and events become texts and gain authority, about mythmaking and literary production as political, and the Middle Ages is no exception. This module consequently focuses upon how medieval writers use and adapt narratives of past and present for political ends. It explores both the role of literature in the encoding of ideologies and the use of history to establish familial power and authority. Covering epic battles, tragic deaths, the supernatural, and questions of gender, the set texts give students the chance to explore how foundation legends and origin myths are constructed; how they legitimise contemporary rulers; and how literary texts are not only a reflection of the world but may exert influence through the creation of political fictions.</p>				
Pre-requisite(s):	Before taking this module you must pass FR2202			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x 10 weeks), 1 seminar (x 11 weeks), 1 podcast training workshop (x 1 week) and options module surgery hour (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	New Coursework = 100%			
Module teaching staff:	Dr V Turner			

FR4118 Women's Voices in Renaissance France				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
<p>Renaissance writing is marked by polyphony: its multiple, shifting narrative voices are part of an intellectual movement that resists the imposition of authority in favour of interpretative freedom. Many of these voices belong to women, as writers and as characters, and they variously challenge or confirm some of the dominant cultural narratives of the European Renaissance. This module examines the roles and representation of women's voices in a range of texts by (largely) canonical French Renaissance writers, both male and female, read in conjunction with equally vocal texts (taught in translation) from the wider European Renaissance. It examines the place accorded to women in literary culture, and considers women's influence over the social concerns either felt by or attributed to them. In its focus on the power of women's voices, in a context of insecure narrative authority and cultural internationalism, the module thus reflects Renaissance concerns that still resonate today.</p>				
Pre-requisite(s):	Before taking this module you must pass FR2201 and pass FR2202			
Learning and teaching methods of delivery:	Scheduled learning: 21 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:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Herdman			

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FR4125 The French Age of Enlightenment			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
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>		
Pre-requisite(s):	Permission of the french honours adviser		
Anti-requisite(s)	You cannot take this module if you take FR4122		
Learning and teaching methods of 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 coordinator:	Dr M Ganofsky		

FR4126 Flaubert's France			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
	<p>This module focuses on the major works of Flaubert as prisms for understanding the ideological and aesthetic contexts of their times (1820-1870) and ours. Flaubert's exploration and representation of subjects including the taboo, and fictional transgressions of nineteenth-century literary norms make his works deeply relevant to investigating similar twenty-first-century issues and debates. Seminars explore texts in chronological order through a programme of prescribed passages for close reading, topics for class discussion and individual and group tasks involving engagement with secondary critical resources. One aim of the course is to ascertain what is transgressive and avant-garde in Flaubert's works. Another is to understand how literary works of the past can provide prescient insights into issues in contemporary France as a first-world culture. The overall structure of the course proactively facilitates textual/contextual analysis and synthesis as well as investigative learning.</p>		
Pre-requisite(s):	Entry to honours french		
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.		
	Scheduled learning: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 100%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Prof M M Orr		
Module teaching staff:	Prof M Orr		

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FR4127 Nineteenth-Century French Narratives of the Sea				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>This module takes students into new realms of engagement with (i) thematic criticism, and (ii) Nineteenth-century hybrid narrative forms blending fact and fiction that develop in response to different understandings of the natural world. By investigating how the sea has been variously seen, read, recorded and written in the century that established modern French natural/marine science disciplines, students will everywhere harness and step outside disciplinary frames for 'Modern Language' study. The 4 representative narratives on the module -- maritime travel writing, historiography, adventure narrative, submarine science fiction -- will be studied in different non-ML University classrooms e.g. MUSA, Gatty to contextualise students' investigations of particular issues, themes, topics, representations etc. concerning the sea covered in the module. Spearheaded by the course texts/contexts, students undertake an investigative project developing an aspect of 'sea writing' and its importance.</p>				
Pre-requisite(s):	Permission of the honours advisor			
Learning and teaching methods of delivery:	Weekly contact: 1 x 90-minute workshop seminar and 1 surgery hour (x 11 weeks)			
	Scheduled learning: 21 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework =100%			
Module coordinator:	Prof M M Orr			
Module teaching staff:	Prof M Orr			

FR4150 Creative Writing in French				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Module capped at 12 students			
Planned timetable:	To be arranged.			
<p>This module allows students to develop and improve writing techniques in French and to build self-critical awareness on the writing process. The development of reading and writing skills will be supported by the study of various types of texts (which may include short stories, poetry, autobiography and fiction). Teaching and learning will be workshop-based, with the use of textual and visual stimuli to trigger imagination and inspiration. Students will be expected to share extracts from their work in progress and to engage with their own, and other students', written productions, to re-work and improve pieces.</p>				
Pre-requisite(s):	Permission of the french honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 2 hours of tutorials (x 11 weeks) 1 weekly surgery hour (x 11 weeks)			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (3 pieces) = 100%			
Re-assessment pattern:	A 2,500-word folder containing two creative writing pieces composed in French, accompanied by a reflective essay in English.			
Module coordinator:	Dr E S M Hugueny-Leger			
Module teaching staff:	Team taught			

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FR4160 From One War to Another: French Politics, Culture and Society 1914 - 1945 (2)

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:				
This module will look at the rise of Communism and Fascism, Vichy France, the Resistance and laipuration. Set texts include: Andri Malraux, La Condition humaine, Georges Bataille, Le Bleu du ciel, Ian Higgins (ed.), Anthology of Second World War Poetry.				
Pre-requisite(s):	Before taking this module you must take FR3059			
Learning and teaching methods of delivery:	Weekly contact:			
	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%			

FR4161 Antillean Identities

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Mon and Wed - time TBC			
What does it mean to be French and Caribbean? This module discusses literature from the French overseas departments of Martinique and Guadeloupe (the Antilles), islands which today have the same status in France as, for example, Calvados or Loire Atlantique, but whose majority population is descended from African slaves. Former colonies of France, the Antilles became overseas departments after World War Two. The historical experiences of slavery and colonisation have had a lasting effect on identity politics in Martinique and Guadeloupe: how do Antilleans identify themselves when their ancestors were slaves transported from Africa? How can they express their identity when the official language of the islands is the former colonial language of French? Through analysis of a range of French Caribbean texts, this module will introduce students to different ways of thinking about Antillean identity.				
Pre-requisite(s):	Before taking this module you must take FR2202 or pass FR2022 or pass FR2032			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x 10 weeks), 1 seminar (x 9 weeks) and 1 optional surgery hour			
	Scheduled learning: 19 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 10%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (presentation) = 10%, Coursework (essay) = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N M Hitchcott			
Module teaching staff:	Prof N Hitchcott			

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FR4181 Contemporary French Crime Fiction				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module introduces students to the tradition of French crime fiction and its contemporary manifestations. Via a survey of classic sub-genres of crime fiction from the early twentieth-century onwards, followed by close reading of texts by key contemporary (post-1985) crime writers, students will learn about: the historical background of the genre; how and where crime fiction is situated in the fields of 'popular culture' and literature in general; what different sub-genres of crime fiction exist. The module will focus both on the specific features of crime fiction (social/historical/political engagement of the set texts; narrative and linguistic strategies) and on the mutually illuminating relationship between genre fiction and 'high' literature.				
Pre-requisite(s):	Before taking this module you must pass FR2202 or pass FR2022 or pass FR2032			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr K E Jones			

FR4183 African Francophone Fiction				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
From Senegal to Rwanda, the former colonial language of French is spoken in 26 countries on the African continent. One of the important legacies of French and Belgian colonisation in Africa has been the emergence of African francophone literature. However, the African writer's relationship with the French language is a conflictual one, bound up with a history of colonial oppression. This module introduces students to fiction in French by writers from sub-Saharan Africa from the 1950s to the twenty-first century. Through the study of a selection of novels by major African authors, students will develop knowledge and understanding of the contexts of production of francophone African literature and the impact of colonisation on African literature in French, alongside a sophisticated analytical grasp of the literary works themselves.				
Pre-requisite(s):	Before taking this module you must pass FR2202 or pass FR2022 or pass FR2032			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (x 11 weeks), 1 seminar (x 6 weeks), 1 surgery hour (x 11 weeks) and 2 hours of compulsory film/video viewing over the semester			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof N M Hitchcott			

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FR4198 Dissertation on a French Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>The dissertation offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be no more than 5,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be agreed in advance by the Head of Department following a favourable report from the Supervisor, whom students should contact in the first instance. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	Before taking this module you must pass FR3001. In taking this module you cannot take a 30-credit dissertation in another subject. . The pre-requisites may be waived if the student has spent a year or semester abroad.			
Anti-requisite(s)	Cannot take FR4199 or a 30-credit dissertation in another subject			
Learning and teaching methods of delivery:	Weekly contact: 3 seminars and approximately 4 contact hours with the supervisor over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			

FR4199 Long Dissertation on a French Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>The dissertation offers students the possibility of personal advanced study on a topic in French on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation will, as a rule, consist of a study of a given body of primary material in a given perspective. Its length should be 10,000 words maximum. It should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be agreed in advance by the Head of Department following a favourable report from the Supervisor, whom students should contact in the first instance. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	The pre-requisites may be waived if the student has spent a year or semester abroad. . Before taking this module you must pass FR3001			
Anti-requisite(s)	Students cannot take FR4198 or another dissertation module			
Learning and teaching methods of 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			

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FR5810 French Science Project Dissertation			
SCOTCAT Credits:	30	SCQF Level 11	Semester Full Year
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged.		
<p>This module offers students the opportunity of personal study arising from a work placement or research project in connection with their science course. It will be assessed by a dissertation in French, normally 5,000 words in length including any quotations, on an agreed topic for which the student already possesses adequate foundation knowledge and for which suitable supervision can be provided. During the work placement or project year, students will collect data for their dissertation and will prepare a plan in French which will be submitted at the beginning of their final year. This will provide a benchmark for writing the dissertation, which will allow any relevant knowledge acquired during the final year to be incorporated. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Pre-requisite(s):	In taking this module you must have admission to level 4 of mchem with french programme		
Anti-requisite(s)	You cannot take this module if you take FR3101 or take FR3103 or take FR3809 or take FR4809		
Co-requisite(s):	You must also take CH4441 or take CH4442		
Learning and teaching methods of delivery:	Weekly contact: To be arranged		
	Scheduled learning: 12 hours	Guided independent study: 288 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation = 100%		
Module coordinator:	Dr G P Bowd		

German (GM) modules

GM3005 German Language 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am Tue and Fri			
	This is a core language module for all students in the first semester of the first year of the Honours programme. It focuses on a range of interrelated activities (such as translation, textual analysis, text production, interpreting and presentations) to develop communicative and analytical skills at an advanced level.			
Pre-requisite(s):	Permission of the german honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms K L Mericka			
Module teaching staff:	Team taught			

GM3006 German Language 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	11.00 am or 1.00 pm Tue and Fri			
	This is a core language module for all students in the second semester of the first year of the Honours programme. It focusses on a range of interrelated tasks (such as translation, textual analysis, text production, interpreting and presentation) to develop communicative and analytical skill at an advanced level.			
Pre-requisite(s):	Before or while taking this module you should take GM3005 unless semester 1 was spent abroad			
Co-requisite(s):	Before or while taking this module you should take GM3005 unless semester 1 was spent abroad			
Learning and teaching methods of delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms K L Mericka			
Module teaching staff:	Team taught			

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GM3088 Travel Writing in German since 1990				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
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>				
Pre-requisite(s):	Permission of the german honours adviser			
Learning and teaching methods of 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:	2-hour Written Examination = 60%, Coursework = 40%			
Module coordinator:	Dr A T Cusack			
Module teaching staff:	Dr A Cusack			

GM3091 The Nazi Past in German Cultural Memory				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
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 <i>Vergangenheitsbewältigung</i> was, is and will be in the future.</p>				
Pre-requisite(s):	Permission of the german honours adviser			
Learning and teaching methods of 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:	2-hour Written Examination = 50%, Coursework = 50%			
Module coordinator:	Dr C Lawson			

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GM3101 German Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
<p>The objective of the module is language learning and cultural familiarisation through a work placement in a German-speaking country. Placements will be as Language Assistants in schools or on other assignments approved by the department. Formal learning and assessment will be through: (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. (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>				
Pre-requisite(s):	Before taking this module you must pass GM2002 or pass GM2004 or pass GM2008 or pass GM2010. In taking this module you must have admission to a german honours programme with integrated year abroad.			
Anti-requisite(s)	In taking this module you must not be on an erasmus exchange.			
Learning and teaching methods of delivery:	This is a Study Abroad or External Placement module			
	Weekly contact: By correspondence throughout the year.			
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 coordinator:	Dr A T Cusack			
Module teaching staff:	Team taught			

GM4007 Translation Methodology (German / English)				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Permission of the german honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 2 seminars and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
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 = 60%, Coursework = 40%			
Module coordinator:	Dr M J White			
Module teaching staff:	Dr M White			

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GM4046 Mediaeval Things				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass GM2002 or pass GM2004 or pass GM2008 or pass GM2010			
Learning and teaching methods of 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:	2-hour Written Examination = 60%, Coursework = 40%			
Module coordinator:	Prof B M E Bildhauer			
Module teaching staff:	Prof B Bildhauer			

GM4056 German Popular Music: Sound, Page and Screen				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	Tues, Wed, Thur - Time TBC			
<p>Germany and Austria, countries of Mozart, Beethoven and Wagner, have also become known internationally for popular music in the last 60 years, from 'Krautrock' and punk to techno and Conchita Wurst. Over this time, different forms of popular music have been associated in complex and changing ways with politics, identities and sub-cultures. This module centres on a theoretical question: how can we analyse music's cultural significance? Students will develop an intermedial approach, studying text and visual sources alongside a playlist to investigate the associations of various genres. We will analyse song lyrics and music in literature and film, and students will be encouraged to supplement study of these textual and visual media with comments on the music itself. Each week will treat a different genre, with students producing a research project that encourages them to combine materials from seminars with other topics and materials of their choice. No prior knowledge of music required.</p>				
Learning and teaching methods of delivery:	Weekly contact: 1 lecture (week 1 only), 1x2-hour seminar (weeks 1-5, 7-11), individual surgery to discuss research topic.			
	Scheduled learning: 28 hours		Guided independent study: 121 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:	3-hour Written Examination = 100%			
Module coordinator:	Dr T A Smith			
Module teaching staff:	Dr T Smith			

GM4058 Memory and the Archive in Contemporary German Culture

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	TBC			
<p>This module considers the relationship between memory and the archive in contemporary German-language culture. It introduces students to theoretical approaches to both memory and the archive (including theories of trauma, photography, and media archaeology) to show how these two concepts are closely linked & the word archive can refer to material, externalized forms of memory, to the media of memory (such as photographs and film), to sites of memory (museums and libraries), or it can serve as a metaphor for memory. Drawing on a range of primary sources (film, literature, and visual art), the module will consider how and why the relationship between memory and the archive is significant for our understanding of different cultural and historical contexts (e.g. World War Two and the Holocaust, the GDR, postwar Austria, post-Wende Germany). It examines why and how artists and authors use archival material and forms in their work from a number of perspectives.</p>				
Pre-requisite(s):	Permission of the german honours adviser			
Learning and teaching methods of delivery:	Weekly contact: One introductory lecture (x1 week), 2 seminars (x10 weeks), 1.5 film viewing (x4 weeks), optional 1 surgery hour (x10 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:	3-hour Written Examination = 100%			
Module coordinator:	Dr D E Osborne			
Module teaching staff:	Dr Dora Osborne			

GM4072 German Classicism

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Whether it is in authors like Goethe and Schiller, or works like Iphigenie, and Maria Stuart, or concepts like 'Bildung', the cultural legacy of the short period of 'Weimar Classicism in Germany and Europe is undeniable and omnipresent. This module assesses the scope of this literary achievement and what lay behind it. The focus of the module will be on the close analysis of a range dramatic and poetic texts (such as Tasso, Tell, and H,lderlin's odes) studied in their intellectual and biographical contexts. In reading the 'classics' of German literature, we will be asking, what makes a 'classic'? Why did Germany feel it had to have a classical age at the end of the eighteenth-century? And what is specific about German Classicism in the context of other European 'Classicisms'?</p>				
Learning and teaching methods of delivery:	Weekly contact: 18 seminars of 1 hour, usually twice weekly.			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 50%, Coursework = 50%			
Module teaching staff:	Dr M White			

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GM4084 German Monsters				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module examines the history of German fiction about monsters, with a focus on three key periods in German culture: the Middle Ages, Romanticism and Expressionism. It will enable students to use monstrosity, the uncanny, the undecidable and trauma as theoretical concepts; to determine the cultural functions of monsters; to explore the tensions that they embody; and to identify and reflect on changing and recurring fears and patterns in text and film over time.				
Pre-requisite(s):	Entry to honours german			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar.			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	TBC			

GM4094 The German Long Story (1880 - 1941)				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Permission of the german honours adviser			
Learning and teaching methods of 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:	2-hour Written Examination = 60%, Coursework = 40%			
Module coordinator:	Dr A T Cusack			
Module teaching staff:	Dr A Cusack			

GM4098 Dissertation on German Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>The dissertation offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be no more than 5,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the Chair of Department.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	Permission of the german honours adviser and head of department.			
Anti-requisite(s)	In taking this module you cannot take GM4099 or another 30-credit dissertation			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars and 4 contact hours with the supervisor in total over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr M J White			
Module teaching staff:	Team taught			

GM4099 Long Dissertation on a German Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
<p>The dissertation offers students the possibility of personal advanced study on a topic in German on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation will, as a rule, consist of a study of a body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be agreed in advance by the Chairman of Department following a recommendation by the Supervisor, whom students should contact in the first instance.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	In taking this module, you cannot take a dissertation in another subject. . Permission of the german honours adviser and head of department			
Anti-requisite(s)	In taking this module you cannot take GM4098 or a dissertation in another subject.			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars and 8 contact hours with the supervisor in total over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr M J White			
Module teaching staff:	Team taught			

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GM4105 German Language 3				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am or 3.00 pm Mon and 11.00 am or 3.00 pm Thu			
This is a core language module for all students in the second year of the Honours Programme. It is designed to develop advanced written and oral language skills based on translation from and into German, while the oral part of the module will afford insight into communicative situations, strategies and approaches in a variety of contexts. Students will learn to recognise and analyse communication techniques and employ them effectively in different situations.				
Pre-requisite(s):	Before taking this module you must pass GM3005 and pass 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 of delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 50%, Coursework = 20%			
	As used by St Andrews: 1-hour Written Examination = 30%, Oral Examination = 30%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr A T Cusack			
Module teaching staff:	Team taught			

GM4106 German Language 4				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am or 3.00 pm Mon; 11.00 am or 3.00 pm Thu			
This is a core language module for students in the second year of the Honours Programme. It is designed to develop advanced written and oral language skills based on task-based text production, summary and essay writing, while the oral part of the module will afford insight into communicative situations, strategies and approaches in a variety of contexts. Students will further develop their competence in recognising and analysing communication techniques and in employing them effectively in different situations.				
Pre-requisite(s):	Before taking this module you must pass 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 of delivery:	Weekly contact: 2 language classes and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: 1-hour Essay in German Examination = 30%, Oral Examination = 30%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Ms K L Mericka			
Module teaching staff:	Team taught			

Italian (IT) modules

IT3001 Italian Language 1			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	To be arranged.		
	This is the core language module for all students of Italian in the first year of the Honours programme. It builds on the work covered in the first and second level Italian Language modules. The module will include translation from and into Italian; analysis of advanced texts; practice in reading and discussing texts; and advanced Italian conversation.		
Pre-requisite(s):	Permission of the Italian honours adviser		
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.		
	Scheduled learning: 20 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 25%, Coursework = 75%		
	As used by St Andrews: Coursework = 100% (25% Oral test, 75% Continuous assessment)		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr C Rossignoli		

IT3002 Italian Language 2			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	To be arranged.		
	This module is intended to build on the achievements of IT3001, and to further increase the students' command of written and spoken Italian as well as reading and listening skills. The module will include translation from and into Italian; analysis and interpretation of advanced texts; practice in reading and discussing texts; advanced Italian conversation.		
Pre-requisite(s):	Before taking this module you must pass IT3001		
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.		
	Scheduled learning: 22 hours	Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr C Rossignoli		

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IT3012 Fourteenth Century Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged			
This module offers an introduction to Italian literature and language of the Trecento, primarily through three major authors: Dante, Boccaccio and Petrarch. Extracts of other texts will be read for the purpose of comparison. The literary, political, religious and philosophical background will be introduced through close study of selected parts of the texts.				
Learning and teaching methods of delivery:	Weekly contact: 1- or 2-hour seminar and 1 surgery hour.			
	Scheduled learning: 29 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 0%, Coursework = 80%			
	As used by St Andrews: Coursework = 100%			
Module coordinator:	Dr R P Wilson			
Module teaching staff:	Dr Robert Wilson			

IT3014 The Language and Literature of Renaissance Italy				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
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.				
Learning and teaching methods of 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 coordinator:	Dr C Rossignoli			

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IT3036 Venice				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
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>				
Pre-requisite(s):	Permission of the italian honours adviser			
Learning and teaching methods of 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 coordinator:	Dr R M Riccobono			
Module teaching staff:	Dr R Riccobono			

IT3101 Italian Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Students cannot take this module who are on an Erasmus Exchange			
Planned timetable:	To be arranged.			
<p>The objective of the module is language learning and cultural familiarisation through a work placement in Italy. Placements will be as Language Assistants in schools or on other assignments approved by the department. Formal learning and assessment will be through: (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. (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>				
Pre-requisite(s):	In taking this module you must have admission to an italian honours programme with integrated year abroad.			
Anti-requisite(s)	In taking this module you must not be on an erasmus exchange.			
Learning and teaching methods of 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 teaching staff:	Italian Study Abroad Coordinator			

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IT4003 Communication Skills 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	The pre-requisite may be replaced by equivalent study abroad. . IT3001, IT3002 or equivalent study abroad module			
Learning and teaching methods of delivery:	Weekly contact: 1 oral class, 1 written class and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 30%, Coursework = 70%			
	As used by St Andrews: Coursework = 100% (30% Oral, 70% Continuous assessment)			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R M Riccobono			
Module teaching staff:	Dr R Riccobono			

IT4004 Communication Skills 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass IT4003			
Learning and teaching methods of delivery:	Weekly contact: 1 oral class, 1 written class and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 30%, Coursework = 40%			
	As used by St Andrews: 2.5-hour Written Examination = 30%, Practical Examination = 30%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr R M Riccobono			
Module teaching staff:	Dr Robert Wilson			

IT4012 Dante Alighieri				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
<p>It is no exaggeration to say that, for a variety of reasons, Dante Alighieri is the single most important figure in the history of Italian literature. This module completes the study of Dante by looking at his work before and after the Inferno. Before the Inferno, Dante was best known as the author of the Vita nuova. This is our first text for study. Less read and more difficult, according to Dante himself, the Paradiso concludes the Commedia and is our other text for study. To complete our examination of Dante's ideas, reference will also be made to the Convivio, the Monarchia, and the De vulgari eloquentia, as well as to the Purgatorio and Inferno.</p>				
Pre-requisite(s):	Permission of the italian honours adviser			
Learning and teaching methods of 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:	2-hour Written Examination = 60%, Coursework = 40%			
Module coordinator:	Dr R P Wilson			
Module teaching staff:	Dr R Wilson			

IT4024 Authority and Subversion in Renaissance Italy				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Before taking this module you must pass IT2002			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr C Rossignoli			

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IT4027 Migration and Transculturality in New Italian Narratives				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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 Volta, Anilda Ibrahim, Cristina Ali Farah and Igiaba Scego) and attempt to draw definitions of what is a new emerging genre of Italian literature.				
Learning and teaching methods of 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 coordinator:	Dr E F Bond			
Module teaching staff:	Dr E Bond			

IT4029 Black Italians				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Availability to be confirmed closer to the time.			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Permission of the Italian honours adviser			
Learning and teaching methods of 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 coordinator:	Prof D E Duncan			
Module teaching staff:	Prof D Duncan			

IT4097 20-Credit Dissertation in Italian				
SCOTCAT Credits:	20	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Italian and Psychology Honours Programme.			
Planned timetable:	To be arranged.			
<p>The dissertation offers students the possibility of personal advanced study on an Italian topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be 7,000 - 8,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the potential supervisor and the Head of the Italian Department.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	Student may not take a dissertation in another subject. . In taking this module you must be enrolled in ma (hons) italian and psychology (with bps recognition)			
Anti-requisite(s)	N taking this module you cannot take IT4098 or take IT4099 or dissertation in another subject.			
Learning and teaching methods of 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			

IT4098 Dissertation on an Italian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>The dissertation offers students the possibility of personal advanced study on an Italian topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation can be either a) a study of a given body of primary material in a given perspective, or b) a critical review of a range of secondary material on a given subject. It should be no more than 5,000 words in length, be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the potential supervisor and the Head of the Italian Department.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	Before taking this module you must pass IT3002. This prerequisite may be replaced by the equivalent study abroad. In taking this module, you cannot take a 30-credit dissertation in another subject.			
Anti-requisite(s)	In taking this module you cannot take IT4097 or take IT4099 or 30-credit dissertation in another subject.			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars and 4 hours with supervisor over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			

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IT4099 Long Dissertation on an Italian Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Final year of the Honours Programme.		
Planned timetable:	To be arranged.		
<p>The dissertation offers students the possibility of personal advanced study on a topic in Italian on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation will, as a rule, consist of a study of a body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with the potential supervisor and the Head of the Italian Department.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Pre-requisite(s):	This prerequisite may be replaced by the equivalent study abroad. Before taking this module you must pass IT3002. In taking this module, you cannot take a dissertation in another subject.		
Anti-requisite(s)	"in taking this module you cannot take IT4097 or take IT4098, or a dissertation in another subject. "		
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars and 8 contact hours with supervisor over the year.		
	Scheduled learning: 11 hours	Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation = 100%		
Re-assessment pattern:	Resubmission of Dissertation		

Modern Languages (ML) modules

ML3101 Modern Languages Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students registered for a WIYA degree			
Planned timetable:	n/a			
<p>The objective of the module is language learning and cultural familiarisation through a combination of work placements or periods of approved study spent successively in two countries where the languages in the student's Honours degree programme are spoken. The particular components of this type of integrated year abroad are subject to specific approval by the Head of School (or delegate) in the first semester of the preceding year. Any student considering this module must seek early advice on the acceptability of the proposed pattern of residence and work/study abroad. Formal learning and assessment will be through: (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. (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>				
Pre-requisite(s):	Admission to honours programme with integrated year abroad			
Anti-requisite(s)	Cannot take any other whole year study abroad module			
Learning and teaching methods of delivery:	This is a Study Abroad or External 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%			

ML4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of approximately 10,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	The student requires a letter of agreement			
Anti-requisite(s)	Cannot take more than 30 credits in other dissertation/project modules			
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			

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Persian (PR) modules

PR3001 Higher Intermediate Persian 1			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	1.00 pm Mon and 4.00 pm Thu		
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.			
Pre-requisite(s):	Before taking this module you must pass PR2002		
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar plus surgery hour.		
	Scheduled learning: 20 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr S Talajooy		

PR3002 Higher Intermediate Persian 2			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	1.00 pm Mon and 4.00 pm Thu		
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.			
Pre-requisite(s):	If not already passed you must take PR3001. PR3002		
Co-requisite(s):	If not already passed you must take PR3001		
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar plus surgery hour.		
	Scheduled learning: 22 hours	Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination = 20%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr S Talajooy		

PR3020 Key Texts in Modern Persian Literature				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Permission of the persian honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	5,000 word essay			
Module coordinator:	Dr S Talajooy			

PR3021 Modern Iran through Cinema				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Honours entry into persian, or otherwise with the permission of the head of school			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module teaching staff:	Dr M Ghorbankarimi			

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PR3022 Modernity and Iranian Drama				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
Students study five Iranian plays by Hassan Moqaddam, Bahram Beyzaie, Bahman Forsi, Mohammad Yaqubi 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.				
Pre-requisite(s):	Before taking this module you must pass PR3002			
Co-requisite(s):	You must also take PR4001			
Learning and teaching methods of delivery:	Weekly contact: 2-hour lecture and 1 surgery hour			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	4,500 - 5,000 word essay			
Module coordinator:	Dr S Talajooy			

PR3023 Songs of Love and Revolution				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	Tuesday 1.00 pm to 3.00 pm			
This module will be focused on the evolution of modern song in Iran between the 1890s and the present. Students will become familiar with the historical context and analyse the poetic, cultural and musical structures of 40 songs while being exposed to a variety of cultural theories which will enable them to analyse the impact of the songs on transforming or reflecting long established traditions or promoting or resisting dominant cultural and political discourses at the time they were first performed and in their later adaptations. They will also gain indirect knowledge of about 100 other songs, which can be used for comparative studies, and study historical and biographical accounts about the lives of their lyricists, singers and composers that can, in turn, be used to introduce them to some very important aspects of modern Persianate cultures.				
Learning and teaching methods of delivery:	Weekly contact: Students will have one two-hour session every teaching week in which they receive instruction on analysing four songs and understanding their cultural contexts. They will do independent reading during the sixth week which has been set as 'Independent Reading Week'.			
	Scheduled learning: 20 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr S Talajooy			

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PR4001 Advanced Persian 1

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.			
Pre-requisite(s):	Before taking this module you must pass PR3002			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Talajooy			

PR4002 Advanced Persian 2

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.			
Pre-requisite(s):	If not already passed you must take PR4001			
Co-requisite(s):	If not already passed you must take PR4001			
Learning and teaching methods of delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 20%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 40%, Oral Examination 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr S Talajooy			

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PR4020 Introduction to Classical Persian Literature				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Entry to Persian honours programme			
Planned timetable:	To be arranged.			
<p>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.</p>				
Pre-requisite(s):	Permission of the persian honours adviser. Before taking this module you must pass PR4001			
Co-requisite(s):	You must also take PR4002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	5,000 word essay			
Module coordinator:	Dr S Talajooy			

PR4021 Female Identity in Contemporary Iran				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	Honours entry into persian, or otherwise with the permission of the head of school			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar plus surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module teaching staff:	Dr M Ghorbankarimi			

PR4098 Short Dissertation on a Persian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	The student cannot take a 30-credit dissertation in another subject. Before taking this module you must pass PR3002			
Anti-requisite(s)	In taking this module you cannot take PR4099 or any 30-credit dissertation in another subject.			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars and 4 contact hours with supervisor over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr S Talajooy			

PR4099 Long Dissertation on a Persian Topic				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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>				
Pre-requisite(s):	The student cannot take a 30-credit dissertation in another subject. Before taking this module you must pass PR3002			
Anti-requisite(s)	In taking this module you cannot take PR4098 or any 30-credit dissertation in another subject.			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars and 8 contact hours with supervisor over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr S Talajooy			

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Russian (RU) modules

RU3001 Advanced Russian Language 1, Part 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module is mandatory for all Honours programmes containing a Russian element, except for programmes which include RU3101. It is designed to build on the level of language competence attained at the end RU2202 or RU2204. The module deals with grammar, the practical problems of translation from and into Russian, and introduces essay-writing in Russian. Oral tuition forms an important element of this module.				
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {RU2201, RU2202, RU2203, RU2204}			
Anti-requisite(s)	You cannot take this module if you take RU3005			
Learning and teaching methods of delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: Written Examination = 40%, Practical Test = 20%, 40% = Coursework			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	TBC			

RU3002 Advanced Russian Language 1, Part 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module is mandatory for all programmes containing a Russian element, except for programmes which include RU3101 or RU3102. It is designed to build on the language proficiency acquired in RU3001. It deals with grammar, the practical problems of translation, and essay-writing in Russian. Oral tuition forms an important element of the module.				
Pre-requisite(s):	If not already passed you must take RU3001			
Anti-requisite(s)	You cannot take this module if you take RU3110			
Co-requisite(s):	If not already passed you must take RU3001			
Learning and teaching methods of delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	TBC			

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RU3005 Advanced Russian Translation 1

SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module is designed to build on the language proficiency attained through a period of study in Russia, on RU3101 or RU3102 or ML3101 (in Russia). The module is based around the study of the finer points of Russian grammar, advanced translation from and into Russian, essay-writing in Russian, and small-group oral classes.				
Pre-requisite(s):	Before taking this module you must pass RU3101 or pass RU3102 or pass ML3101			
Anti-requisite(s)	You cannot take this module if you take RU3001			
Learning and teaching methods of delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: Written Examination = 40%, Practical Test = 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	TBC			

RU3021 Russian Poetry of the Golden Age

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
The module is designed to develop the knowledge of Russian literature acquired at sub-honours level, and in particular to examine Russian poetry of the early nineteenth century. It begins with the theory of versification, after which the most important poets of the early nineteenth century are studied, together with key texts in Russian. These include Pushkin's lyric poetry and novel in verse Eugene Onegin, and the poetry of Lermontov and Derzhavin.				
Pre-requisite(s):	Before taking this module you must pass RU2002 and pass RU2004 and pass RU2006			
Learning and teaching methods of 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: Practical Oral Examination = 20%, Coursework = 80%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E Finer			

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RU3022 The Nineteenth-Century Russian Novel				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
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.				
Learning and teaching methods of delivery:	Weekly contact: 2 seminars and 1 surgery hour.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework = 100% (2 essays of 3000 words each)			
Re-assessment pattern:	Coursework = 100% (2 essays of 3000 words each)			
Module coordinator:	Dr C E Whitehead			
Module teaching staff:	Dr C Whitehead			

RU3026 Russian Modernist Fiction 1900 - 1940				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	4.00 pm Tue			
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).				
Pre-requisite(s):	Before taking this module you must pass RU2202 or pass RU2204			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture, 1 seminar and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Practical Oral Examination = 20%, Coursework = 80%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr E Finer			

RU3030 A Special Russian Author of the Twentieth Century

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
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 Bulgakov, Mandel'shtam, Maiakovskii, Belyi, Solzhenitsyn, etc. Independent study will form a major element of the module.				
Pre-requisite(s):	Before taking this module you must pass RU2202 or pass RU2204			
Learning and teaching methods of 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 coordinator:	Dr J D S Gardiner			
Module teaching staff:	Dr J Gardiner			

RU3043 Theatre and Performance in Twentieth-Century

SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module examines theories and practices of theatre and performance through study of major Russian dramatists, composers and directors. In particular, the module considers the ways in which tensions between psychological realism and festive theatricality, Stanislavsky's and Meyerhold's rival directorial principles, come to bear on 20th century Russian and Soviet drama. The module draws on a variety of media and cultural texts including drama, (rock)opera and silent film. Texts are analysed in their cultural contexts and assessed as both a reflection of contemporary concerns and politics and an attempt to influence and shape them. Students will explore visual languages of the stage by considering usage of theatrical space, set and costume design as an integral part of performance. Negotiation, interpretation and translation of text onto stage will be addressed through study of iconic productions.				
Pre-requisite(s):	Before taking this module you must pass RU2202 or pass RU2204			
Learning and teaching methods of delivery:	Weekly contact: 2 seminars and 1 surgery hour. 2 hours film viewing over the semester.			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J D S Gardiner			
Module teaching staff:	Dr J Gardiner			

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RU3101 Russian Integrated Year Abroad				
SCOTCAT Credits:	60	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
The objective of the module is language learning and cultural familiarisation through a study placement in Russia. Placements will be as students in Russian at a Foreign Language department at universities or in language schools. Assessment will be through: (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. (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.				
Pre-requisite(s):	In taking this module you must have admission to a russian honours programme with integrated year abroad and must not be on an erasmus exchange. Before taking this module you must pass RU2202 or pass RU2204 or pass RU2206			
Anti-requisite(s)	In taking this module you cannot take RU3102 or erasmus exchange			
Learning and teaching methods of 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 teaching staff:	TBC			

RU3110 Advanced Russian Translation 2				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module builds on the written and spoken language skills developed in RU3005 by students who have spent a period of study in a Russian-speaking environment. Spoken Russian is improved through small group tuition with a native Russian language instructor. There are regular translation exercises grammar classes and oral presentations.				
Pre-requisite(s):	If not already passed you must take RU3005			
Anti-requisite(s)	You cannot take this module if you take RU3002			
Co-requisite(s):	If not already passed you must take RU3005			
Learning and teaching methods of delivery:	Weekly contact: 2 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 117 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25% As used by St Andrews: Written Examination = 40%, Practical Test = 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	TBC			

RU4101 Advanced Russian Language 2				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass RU3002 or pass RU3102 or pass RU3110			
Learning and teaching methods of delivery:	Weekly contact: 1 language class, 1 oral class and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: Written Examination = 40%, Practical Test = 20%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	TBC			

RU4104 Russian Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass RU4101			
Anti-requisite(s)	You cannot take this module if you take RU4102			
Learning and teaching methods of delivery:	Weekly contact: 1-hour oral class, 1 surgery hour, 1-hour video class or written work.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: Practical Examinations = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Mrs S Booth			

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RU4144 Russian Crime Fiction				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Russian crime fiction is a hugely popular genre with the contemporary reading public and yet one which remains relatively critically neglected. This module provides students with the opportunity to study the history of the practice of crime fiction in Russia from c.1860 up to the present day. Students will consider the specific socio-historical context of the birth of the genre in the reform period of the early 1860s, as well as issues of 'high' and 'low' aesthetic genres, before moving on to read a broad range of such works. Discussion throughout will focus on both the literary poetics of the works as well as their relationship to historical situation and debate. Authors to be studied include: Sokolovskii, Panov, Dostoevskii, Shkliarevskii, Chekhov, Sokolova, Shaginian and Akunin.</p>				
Learning and teaching methods of delivery:	Weekly contact: 2 seminars and 1 surgery hour.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Practical Oral Examination = 30%, Coursework = 70%			
Re-assessment pattern:	Practical Oral Examination = 30%, Coursework = 70%			
Module coordinator:	Dr C E Whitehead			

RU4151 The City in Soviet and Russian Cinema				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>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.</p>				
Pre-requisite(s):	Before taking this module you must pass RU2202 or pass RU2204			
Learning and teaching methods of 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 coordinator:	Dr V S Donovan			
Module teaching staff:	Dr V Donovan			

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RU4152 Vladimir Nabokov				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Before taking this module you must pass RU2202 or pass RU2204			
Learning and teaching methods of delivery:	Weekly contact: 1.5-hour seminars and 1 surgery hour			
	Scheduled learning: 27 hours		Guided independent study: 112 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr M Vaysman			
Module teaching staff:	Dr B Dralyuk			

RU4198 Dissertation on a Russian Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	Please Contact Department			
The dissertation offers students the possibility of personal advanced study on a topic 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/)				
Pre-requisite(s):	Permission of the russian honours adviser			
Anti-requisite(s)	In taking this module you cannot take RU4199 or a 30-credit dissertation in another subject			
Learning and teaching methods of delivery:	Weekly contact: 4 contact hours with the supervisor plus 3 x 1-hour seminars over the semester.			
	Scheduled learning: 7 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module coordinator:	Dr E Finer			

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RU4199 Long Dissertation on a Russian Topic			
SCOTCAT Credits:	30	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Final year of the Honours Programme.		
Planned timetable:	Please Contact Department		
<p>The dissertation offers students the possibility of personal advanced study on a topic which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Dissertation will, as a rule, consist of a study of a given body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with both the research co-ordinator and the potential supervisor. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Pre-requisite(s):	Permission of the russian honours adviser		
Anti-requisite(s)	In taking this module you cannot take RU4198 or a dissertation in another subject		
Learning and teaching methods of delivery:	Weekly contact: 8 contact hours with the supervisor plus 3 x 1-hour seminars over the year.		
	Scheduled learning: 11 hours	Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation = 100%		
Re-assessment pattern:	Resubmission of Dissertation		
Module coordinator:	Dr E Finer		

Spanish (SP) modules

SP3001 Spanish Language 1			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged on Tue		
The overall objective of this core module is to promote advanced skills in listening, speaking, reading and writing in Spanish. In addition there will be elements that stimulate a high level of awareness of grammar. The syllabus is based on a selection of modern Spanish texts from both Spain and Spanish America which are used as sources for the study of various registers through reading and listening comprehension, precis and writing and rewriting exercises. The grammar involves a full understanding of an array of issues dealt with by Butt and Benjamin.			
Pre-requisite(s):	Entry to the honours spanish programme		
Learning and teaching methods of delivery:	Weekly contact: 1 class, 1 practical and 1 surgery hour (x 10 weeks)		
	Scheduled learning: 20 hours	Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		

SP3002 Spanish Language 2			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged on Tue		
The overall objective of this core module is to promote advanced skills in listening, speaking, reading and writing in Spanish. The syllabus combines two main types of material: listening comprehension on the basis of recordings and a selection of texts for the study of different linguistic registers (including dialogues from fictional works and essays, books and sports reviews and written portraits of famous characters from newspapers.)			
Pre-requisite(s):	Before taking this module you must pass SP3001		
Learning and teaching methods of delivery:	Weekly contact: 1 class, 1 practical and 1 surgery hour.		
	Scheduled learning: 22 hours	Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr F J Letran		

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SP3006 Literary Translation				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass SP2002			
Co-requisite(s):	Compulsory modules for single and major spanish programmes			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Prof G F San Roman			
Module teaching staff:	Prof G San RomBn			

SP3011 History of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass SP2002			
Co-requisite(s):	Compulsory modules for single and major spanish programmes			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Written Coursework = 100%			
Module coordinator:	Dr K Anipa			

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SP3101 Spanish Integrated Year Abroad

SCOTCAT Credits:	60	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	May be subject to restrictions from receiving country.			
Planned timetable:	Please Contact Department			
<p>The objective of the module is language learning and cultural familiarisation through a work placement in a Spanish-speaking country. Placements will be as Language Assistants in schools or on other assignments approved by the department. Formal learning and assessment will be through: (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. (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>				
Pre-requisite(s):	To take this module you must have passed SP2002 and have admission to a spanish honours programme with integrated year abroad.			
Anti-requisite(s)	#name?			
Learning and teaching methods of 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 coordinator:	Dr K Anipa			

SP3122 Spanish American Literature 2

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am - 10.30 am Wed			
<p>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.</p>				
Pre-requisite(s):	Before taking this module you must pass SP2002 or pass SP2004			
Learning and teaching methods of 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 coordinator:	Prof G F San Roman			
Module teaching staff:	Prof G San Roman			

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SP3145 Post-1975 Writing in Spain 1				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
<p>The aim of the module is the close study of a selection of literary texts (works of prose fiction and poetry, in the main) produced in the post-Franco period. These narratives distance themselves from the realist (and experimental) mode of writing that dominated much of the literature produced between 1939 and the 1970s. Instead, they construct subjective worlds that, nevertheless, tend towards a universality of experience and can be seen as part of a process of the gradual 'normalization', Europeanisation, and universalisation of Spanish cultural creations. The selection is likely to include five works written by authors born after the end of the Civil War, such as: A. Bautista, F. Benítez Reyes, J. Cercas, L.A. de Cuenca, L. Garcíya Montero, J Marmas, E. Mendoza, A. Muñoz Molina, A. Orejudo, A. PÚrez-Reverte, S. PuÚrtolas and A. Rosetti. In the case of poetry, a relevant anthology including some of these authors will be recommended.</p>				
Pre-requisite(s):	Before taking this module you must pass SP2002 or pass SP2004			
Co-requisite(s):	Compulsory modules for single and major spanish programmes			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module teaching staff:	Dr J Letr�n			

SP3147 The Art of Subversion in Post-War Spain (1939-1975)				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	11.00 am- 12.30 pm Wednesday.			
<p>This module is designed to introduce students to the complex and fascinating relations between culture and history within the context of post-Civil War Spain, providing them with an interdisciplinary knowledge of that period. In particular, it aims at exploring the value of film and poetry as modes of cultural resistance to dominant political and ideological discourses. In order to do so, we will be looking at the work of a number of key authors in the history of contemporary Spanish literature (such as Jos� Hierro, �ngel Gonzalez, Gloria Fuertes, Jaime Gil de Biedma, and Jos� �ngel Valente, amongst others) and cinema (typically, L. Garc�ya Berlanga, J. A. Bardem, B. Mart�n Patino, V. Erice, C. Saura, etc).</p>				
Pre-requisite(s):	Before taking this module you must pass SP2002			
Learning and teaching methods of delivery:	Weekly contact: 1-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: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module teaching staff:	Dr J Letr�n			

SP3157 Autobiographical Writing in Twentieth-Century Spain

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
In this module the exploration of autobiographical writing in contemporary Spain has multiple objectives. It will provide an introduction to the problems and characteristics of autobiographical writing as an important literary genre. These theoretical tools will be applied to a problematic and ambiguous example (Lazarillo de Tormes) as well as to the works of major writers who have had an impact on their society (Rafael Alberti, Carmen 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.				
Pre-requisite(s):	Before taking this module you must pass SP2002			
Co-requisite(s):	Compulsory modules for single and major spanish programmes			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			

SP3158 Representations of the Urban: 20th Century Buenos Aires

SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
This is an interdisciplinary module, which explores representations of the urban in twentieth-century Argentina. It focuses on poetic, novelistic, cinematic and artistic accounts of the city of Buenos Aires from the 1920s to the present day. In particular, it examines overlapping techniques and methods, and semantic and conceptual concurrences in mapping the urban in different cultural disciplines. The module involves a close study of the work of internationally acclaimed figures of Argentine culture and engages with theoretical issues related to space, time, identity and the dialectic of art (in its broader sense) and society.				
Pre-requisite(s):	Before taking this module you must pass SP2002 or pass SP2004			
Learning and teaching methods of delivery:	Scheduled learning: 0 hours		Guided independent study: 0 hours	
	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
Assessment pattern:	As used by St Andrews: Coursework = 100%			

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SP3160 Facing the New: Spanish Literature and Society (1888 - 1918)				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	2.00 pm - 3.30 pm Fri			
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.				
Pre-requisite(s):	Before taking this module you must pass SP2002 or pass SP2004			
Learning and teaching methods of delivery:	Weekly contact: 1 x 1.5-hour seminar and 1 surgery hour.			
	Scheduled learning: 18 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr R Fernandez Romero			
Module teaching staff:	Dr R Fernández Romero			

SP3163 Tales of the Nation				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	2.00 pm - 3.30 pm Tue.			
The purpose of this module is to study a variety of fictional and non-fictional narratives of the Spanish nation-state as well as stateless nations within the Spanish state from the modern and contemporary period.				
Pre-requisite(s):	Before taking this module you must pass SP2002 or pass SP2004			
Learning and teaching methods of 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 coordinator:	Prof J Larios			

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SP3222 Love and Loss				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	2.00 pm - 3.30 pm Thu			
Love and loss have been the inspiration, in one way or another, behind most works in world literature. This module aims to provide a sound understanding of important literary works from Spain and Spanish America that explore these complex emotions. The syllabus involves a selection of canonical or critically acclaimed Spanish texts representing different genres, gender authorial perspectives, visions of sexuality, and historical moments, as in the following potential instances: the Romantic play, Don Juan Tenorio (1844); the Realist novel, La Regenta (1885); the Modernista poetry collection, Los clices vacíos (1913); and the contemporary fiction, Beatriz y los cuerpos celestes (1998). Aspects to be explored are likely to include some or all of the following: loyalty and deception; fulfillment and disappointment; passion and affection; jealousy and revenge. In sum, the whole gamut of emotion in connection with a theme which, more than any other, expresses our humanity.				
Pre-requisite(s):	Before taking this module you must pass SP2002 or pass SP2004			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	Coursework - 100%			

SP4003 Spanish Language 3				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am Thu, plus 1 practical to be arranged on Tue			
The overall objective of this core module is to build on advanced skills in listening, speaking, reading and writing in Spanish. The syllabus is made up of a selection of texts in different registers which provide the basis for both written and oral work in class.				
Pre-requisite(s):	Before taking this module you must pass SP3002			
Anti-requisite(s)	You cannot take this module if you take SP4102 or take SP4103			
Learning and teaching methods of delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr R Fernández Romero			

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SP4004 Spanish Language 4: Communication Skills				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	If not already passed you must take SP4003 or take SP4102			
Co-requisite(s):	If not already passed you must take SP4003 or take SP4102			
Learning and teaching methods of delivery:	Weekly contact: 1 class and 1 practical and 1 surgery hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: 15-minute Oral Examination = 30%, Aural Comprehension = 30%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module teaching staff:	Dr R Fern�andez Romero			

SP4012 Linguistic Study of the Spanish Language				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass SP2002 or pass SP2004			
Co-requisite(s):	Compulsory modules for single and major spanish programmes			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr K Anipa			

SP4013 Culture and Conflict: Representing the Spanish Civil War

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm - 3.30 pm Thu.			
This module considers how the Spanish Civil War has been represented in culture over time, from contemporary literary responses to the testimonial writings of post-war exiles and the fictional representations of subsequent generations. Students will explore such issues as the tensions between culture and politics (propaganda, censorship, etc.), the reliability of memory texts, the 'memory boom' in recent Spanish fiction and post-memory. A selection of literary texts and film will be studied.				
Pre-requisite(s):	Before taking this module you must pass SP3001 and pass SP3002			
Learning and teaching methods of delivery:	Weekly contact: 1.5-hour seminar and 1 surgery hour and occasional film/video viewing			
	Scheduled learning: 23 hours		Guided independent study: 127 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module teaching staff:	Dr C O'Leary			

SP4015 Action Heroes and Anti-heroes in Early-Modern Spain

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.30 am - 11.00 am Tue			
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.				
Pre-requisite(s):	Before taking this module you must pass SP2002			
Co-requisite(s):	Compulsory modules for single and major spanish programmes			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr T L L Bergman			
Module teaching staff:	Dr T Bergman			

Modern Languages - Honours Level - 2018/9 - August - 2018

SP4017 (R)evolutions in Early Modern Love Lyric: Perilous, Provocative, Parodic				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am - 12.30 pm Wed			
<p>This module serves as a high-level introduction to Spanish love lyric in the Early Modern period. It charts what one might term the (r)evolutions in amatory poetry throughout the Renaissance and Baroque periods via some of the finest poets of the age. You will begin with a firm grounding in Petrarch, the rise and circulation of Petrarchist poetics, and the key debates in Neoplatonism that spread throughout Europe and beyond, which underpinned much of the love lyric of the period. The poets who follow fit within one of the three broad camps that appear in the subtitle: perilous, provocative, and parodic. You will consider the rise of the love sonnet and the national figure of Garcilaso de la Vega, engage with research-led teaching on Juan Bosc�n's move away from courtly poetics and Francisco de Aldana's move towards physicality, as well as the parodic lyric of Catalina Clara Ram�rez de G-zman and Lope de Vega's fictional Tom� de Burguillos.</p>				
Pre-requisite(s):	Permission of the spanish honours adviser			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 17 hours		Guided independent study: 132 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr P J Lennon			
Module teaching staff:	Dr P Lennon			

SP4098 Dissertation on a Spanish Topic				
SCOTCAT Credits:	15	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>This module offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The Critical Review involves the evaluation of a range of secondary material on a given subject. It should be no more than 5,000 words in length, be submitted in accordance with guidelines and deadlines, and normally written in English. The topic must be formally agreed in advance with the research co-ordinator and potential supervisor.(Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	Before taking this module you must pass SP2002. In taking this module you cannot take a dissertation in another subject			
Anti-requisite(s)	Cannot take SP4099 or dissertation in another subject			
Co-requisite(s):	Compulsory modules for single and major spanish programmes			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars plus 4 contact hours withsupervisor 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 teaching staff:	TBC			

Modern Languages - Honours Level - 2018/9 - August - 2018

SP4099 Long Dissertation on a Spanish Topic

SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Final year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>The dissertation offers students the possibility of personal advanced study on a topic on which they already have adequate basic knowledge and for which a suitable Supervisor can be found. Guidance will be offered on research methods and on presentation. The dissertation will, as a rule, consist of a study of a given body of primary material in a given perspective. Its length should be 10,000 words maximum, and it should be submitted in accordance with guidelines and deadlines, and normally be written in English. The topic must be formally agreed in advance with both the research co-ordinator and the potential supervisor. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	Before taking this module you must pass SP2002. In taking this module you cannot take a dissertation in another subject.			
Anti-requisite(s)	Cannot take SP4098 or dissertation in another subject			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour seminars plus 8 contact hours with supervisor over the year.			
	Scheduled learning: 11 hours		Guided independent study: 289 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Resubmission of Dissertation			
Module teaching staff:	TBC			

SP4223 History and Culture in Spanish Texts

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>Focusing on a variety of texts from different periods and geographical areas in the Spanish-speaking world, this module aims to provide the student with a questioning understanding of the importance of the past and the different ways in which the past can be represented depending on the creator's own historical context, intentions and knowledge. In other words, this module will explore how several highly significant historical moments have been represented through fictions. The syllabus will involve the study of a selection of canonical texts from Spain and Spanish America, ranging from the Renaissance to the present day, that raise issues related to the link between history, memory and cultural expression.</p>				
Pre-requisite(s):	Before taking this module you must pass SP2002			
Anti-requisite(s)	You cannot take this module if you take SP4102			
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.			
	Scheduled learning: 16 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof J Larios			

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SP4224 Reality and Illusion			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	9.30 am - 11.00 am Tue		
<p>This module centres on the study of Don Quijote, by Miguel de Cervantes, and its cultural and literary impact. It aims to provide a sound understanding of important modes of literary expression in Spain and Spanish America following the conflict of reality and illusion across the centuries. The syllabus involves the study of a selection of canonical texts from Spain and Spanish America, with most time spent on Cervantes's novel. The module examines how illusion cuts across literary, psychological and moral facets, including satire, parody, genre-mixing, and future interpretations such as the Romantic view of the novel or twentieth-century rewritings; modern characterisation and character development, and the creation of realistic figures in a fictional reality-based world; and the themes of good, evil, justice, the rights of the individual versus the collective, and the ability of fiction to benefit people or do them harm.</p>			
Pre-requisite(s):	Before taking this module you must pass SP2002		
Co-requisite(s):	Compulsory modules for single and major spanish programmes		
Learning and teaching methods of delivery:	Weekly contact: 1 seminar and 1 surgery hour.		
	Scheduled learning: 16 hours	Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr T L L Bergman		

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018
School of Philosophical, Anthropological & Film Studies

Film Studies (FM) modules

FM4099 Film Studies Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second Year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>The dissertation offers students the possibility of personal advanced study on a topic in Film Studies on which they already have adequate basic knowledge and for which a suitable supervisor can be found. Students will have the chance to work closely with a supervisor as they develop their project, and further guidance will be offered on research methods and on presentation. The dissertation will, as a rule, consist of a study of a given body of primary material in a defined perspective. Its length should be 10,000 words maximum. It should be submitted in accordance with guidelines and deadlines, and be written in English. The topic must be agreed in advance by the module convenor and chosen supervisor. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	Before taking this module you must pass FM2002			
Anti-requisite(s)	The student cannot take any other 4000-level dissertation module			
Learning and teaching methods of 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 teaching staff:	Team taught			

FM4106 War and Cinema				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	TBC (seminars), 5.00 pm - 8.00 pm Thur (screenings)			
<p>The war film is one of the great modes of cinematic expression, with outstanding examples of the genre stretching from the early silent period to the contemporary era. In this module, we will explore the chronological history of the War Film, beginning with reenactments and actualities from the Spanish-American War, proceeding through treatments of World War I such as All Quiet on the Western Front, and continuing with films such as Apocalypse Now, Waltz with Bashir, and The Hurt Locker. Students will gain knowledge and awareness of the links between the history of cinema and the development of optical weaponry, the different ways the body of the soldier has been represented in war, and the shaping of cultural memory in film.</p>				
Pre-requisite(s):	Before taking this module you must pass FM2001 and pass FM2002			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Prof R J Burgoyne			
Module teaching staff:	Dr T Rice, Dr T Parks, Dr Z Shacklock			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

FM4107 Cinema and Nation				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon - 14.00 Mon, 7.00 pm - 9.30 pm Tues (screenings)			
<p>This module addresses the central notion that a national cinema can be more fruitfully understood in terms of the conflicts and discrepancies within a given culture to which its constituent films give a voice. These conflicts point to the fact that film does not simply represent the homogeneous characteristics of a national culture: national cinemas can be seen as sites of contestation where the meanings and interpretations of national culture and history can be debated, dismissed or fortified. As a site, the cinema can be conceptualised as a public arena where the meanings of a culture are negotiated, not simply disseminated. What has been forgotten, what has been elided, and what should be remembered? What is the relationship between these cultural histories and the work of individual filmmakers? The module will introduce different methodologies for the study of national cinemas, either through a specific national cinema (such as the cinemas of Britain, Canada, India, Italy, South Korea or Spain) or through a comparative focus. Case studies will vary from year to year depending on staff availability. For further details, students are advised to contact module coordinator.</p>				
Pre-requisite(s):	Before taking this module you must pass FM2002			
Learning and teaching methods of 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 teaching staff:	TBC			

FM4110 Images and Impact: The Uses of Film				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm - 4.00 pm Tue, 9.30 - 12 noon Mon (screenings)			
<p>Screen media, whether broadcast news, commercials, documentaries or docudramas, or even mass entertainment, are presumed to act as agents of social change. They inform us about the world around us and encourage our views and responses. This module investigates the relationship between visual media - specifically film and video - and action from historical, practical and theoretical perspectives. Examining styles and content alongside strategies of distribution and exhibition, we will explore the ways in which various producers (for instance, governmental and nongovernmental organisations, marginalised communities, social movements, and 'culture jammers') have used screen media for political and social purposes.</p>				
Pre-requisite(s):	Before taking this module you must pass FM2002			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Dr L Torchin			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

FM4113 Ecocinema: The Nature of Film				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	TBC (Seminars), 5.00 pm - 8.00 pm Thu (mavsscreenings)			
This Honours module explores cinema's relationship to the natural environment through a combination of historical, textual, and theoretical analysis. Students will study the history of film's reliance upon both natural materials and technologies. They will consider how the environment has been represented in a range of films, including natural history films, environmentalist documentaries, art and experimental films, and popular genre films, from Hollywood westerns to science fiction and apocalypse films. And they will study the role of nature, landscape, and the environment in film theory. Specific films and theories will vary from semester to semester. For further details on the specific focus of the module for the current semester, contact the Department of Film Studies.				
Pre-requisite(s):	Before taking this module you must pass FM2001 and pass FM2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar and a 3-hour screening			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Take Home Examination (48 hour slot) = 100%			
Module coordinator:	Dr L F Donaldson			
Module teaching staff:	Dr L Donaldson, Dr P Flaig, Dr P Lovatt			

FM4114 Film Genres				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am - 12.00 noon Tue, 7.00 pm - 9.30 pm Mon (screenings)			
Film Genres will re-examine, and problematise, film genre today by exploring the topic in a variety of contexts. The module will incorporate a combination of approaches (theoretical, industrial and textual) and, in its assessments, will encourage students to think innovatively about, amongst other things, genre markers, global industry practice and exhibition culture. The module will ordinarily be organised in related clusters. These clusters may include, but will not be limited to: Genre studies in Classical Hollywood; Genre and authorship (e.g. Hitchcock, Ford, Miike, Woo); Genre and Stars (eg. Clint Eastwood, Jackie Chan, Hugh Grant); Historicising Genre; Global genres; Genre and adaptation; Genre hybrids; Genre and blockbusters; Film Noir as a genre, cycle or mood; Genre and violence; Asian Genres; Genre and studios.				
Pre-requisite(s):	Before taking this module you must pass FM2002			
Learning and teaching methods of 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:	Coursework = 100%			
Module teaching staff:	TBC			

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FM4118 Film and Fashion				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm - 4.00 pm Mon, 9.30 am - 12.00 noon Mon (screening)			
<p>The module explores two aspects of the interaction between film and fashion: On the one hand, it looks at the ways fashion intersects with film in the area of costume design and general approaches to style. On the other, it surveys the variety of representations that the fashion world has enjoyed in global cinema. It looks at matters of taste, style, glamour, creativity, celebrity, global fashion hubs and gurus, consumerism, but also at the way fashion is produced, managed, and sold, from glossy magazines and advertising through to luxury brands and sweat-shops. Students will have the opportunity to view and discuss documentary and feature films made by a host of important international directors (including, but not limited to Wim Wenders, Albert Maysles, Jun Ichikawa, Bertrand Bonello, Tom Ford, Ben Stiller, Robert Altman, Nora Ephron, and Gillian Armstrong), as well as to research and write on these matters. The discussions will also touch on matters of fashion photography and film.</p>				
Pre-requisite(s):	Before taking this module you must pass FM2001 and pass FM2002			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Prof D Iordanova			

FM4121 Screen Comedy				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 - 4.00 pm Monday, 4.30 - 7.00 pm Monday (Screening)			
<p>This module will trace comic forms, genres and theories developed over the course of film and television history. Taking comedy seriously, the module will bring together formal analysis of comic scenes and images, seeking to explore the how and why of funniness, with a broad historical survey, bridging early cinematic gags with Vine videos to explore the broader cultural and political causes and consequences of screen humour. Essential theories of comedy will be in dialogue with each week's screening, analysing concepts ranging from the grotesque to laughter, the absurd to humour noir. We will focus on several key questions: How does comedy subvert or support social norms, whether they be political, ethnic or gendered? What is the relationship between the comic body on screen and the spectatorial response of laughter? What are the most extreme forms of comic experience? Screenings may include works by Keaton, McCarey, Chytilov�, Kusturica, Sturges, Iannucci and others.</p>				
Pre-requisite(s):	Before taking this module you must pass FM2002			
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures (x 11 weeks) 3 hours of film/video viewing (x 11 weeks)			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination			
Module coordinator:	Dr P Flaig			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

FM4122 Watching the Detectives: Murder, Mystery and the Media

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 -12.00 noon Tuesday, 7.00 - 9.30 pm Tuesday (Screening)			
	<p>This module will examine the integral role of the detective story across media and throughout history. This hugely popular and enduring phenomenon is both culturally significant (for example the detective story has historically shaped film narrative and processes of audience identification on film) and a lens through which to explore broader issues often marginalised on other modules (for example questions of adaptation, character, or race). The first five weeks will examine the form and function of detective dramas, before later foregrounding thematic considerations. The module will encourage students to examine film alongside other media (including tv, literature, video games, stage plays, radio), placing different media texts in dialogue each week. It will consider media historically, both internationally and regionally and, through its innovative assessments, will explore the continued popularity and evolution of the detective today.</p>			
Pre-requisite(s):	Before taking this module you must pass FM2001 and pass FM2002			
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures (x 11 weeks) 3 hours of film/video viewing (x 11 weeks)			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	3-hour Written Examination			
Module coordinator:	Dr T W T Rice			
Module teaching staff:	Dr T Rice Senior, Dr L Donaldson			

FM4123 Artists' Film and Video

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 - 2.00 pm Monday, 4.30 - 7.00 pm Tuesday (screening)			
	<p>Exploring connections between other art forms and media including television, sculpture, painting, photography, new media & the sonic arts, experimental film movements have often drawn attention to the materiality of the medium in such a way as to radically challenge conventional modes of storytelling, and of narrative cinema, in particular. This module will introduce students to the critical and historical contexts of artists' film and experimental cinema. Taking a global perspective, it will examine work from a range of national contexts, while also examining the transnational flows of these film movements. Particular attention will be paid to question of identity politics that these works raise, recognising the importance of women & queer filmmakers whose contributions have often been marginalised in more traditional film histories. In this context, 'artists' film' is understood as work made for the primary purpose of aesthetic experimentation rather than for commercial reasons .</p>			
Pre-requisite(s):	Before taking this module you must pass FM2002 and pass FM2001			
Learning and teaching methods of delivery:	Weekly contact: 2 hours of lectures and up to 3 hours of film/video viewing			
	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:	3-hour Written Examination = 100%			
Module coordinator:	Dr P C Lovatt			
Module teaching staff:	Dr P Lovatt			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

FM4206 Cinemas of India				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	2.00 pm - 4.00 pm Tues, 4.30 pm - 7.00 pm Tues (screening)			
This module will go beyond Bollywood and survey the extraordinary range of cinematic production in India since Independence. In addition to classic and contemporary examples of Popular Hindi Cinema (Bollywood), we will also study films from other major industries, such as Tamil and Bengali, as well as a range of cinematic practices, such as documentary, avant-garde and state-funded realist cinema. The module will also allow students to explore the various methodologies currently used to study this hugely important cinema (e.g. auteurist, transnational, ethnographic, sociological).				
Pre-requisite(s):	Before taking this module you must pass FM2001 and pass FM2002			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Dr A Jain			
Module teaching staff:	Dr Anuja Jain			

FM4207 British Cinemas: Conventions, Subversions, and Outsiders				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon - 2.00 pm Tue, 7.00 pm - 9.30 pm Mon (screenings)			
This module approaches British cinema as a site of cultural and formal multiplicity, focusing on its shifting balance between tradition and rebellion, belonging and alienation. The module raises questions about representation and inclusion, as well about formal and narrative strategies. Students will have the opportunity for independent research, by writing a case study of their chosen British star. Weekly topics may include the problematic emergence of queer identities (The Killing of Sister George, Robert Aldrich, 1968), the ambivalent portrayal of British spies and defectors (Another Country, Marek Kanievski, 1984), British filmmaking outside Britain (The Third Man, Carol Reed, 1949), the modernist mockery of British tradition (The Draughtsman's Contract, Peter Greenaway, 1982), and a British star case study.				
Pre-requisite(s):	Before taking this module you must pass FM2001 and pass FM2002			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Dr E Girelli			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

FM4308 Film Sound				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon - 2.00 pm Tue, 4.30 - 7.00 pm Mon (screening)			
<p>Film Sound challenges our critical focus on the film image and explores the expressive contribution of sound to film. Sound has the capacity to shape environment, mood and ultimately the ways in which we engage with film, thus making it a vital consideration in critical and aesthetic approaches. The module engages with central critical topics representation, aesthetics, affect and technology - and with the production of sound (through case studies of selected practitioners). The module utilises innovative ways of thinking about sound to help students gain a detailed understanding of the different elements of sound in film. The topic is explored through a range of case studies and draws on a diverse mix of sources, including production materials and interviews with industry personnel. The emphasis on the work of practitioners will help confront and nuance assumptions about watching and making film.</p>				
Pre-requisite(s):	Before taking this module you must pass FM2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour lectures (x 11 weeks) 3-hour film viewing (x 11 weeks)			
	Scheduled learning: 55 hours		Guided independent study: 245 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr L F Donaldson			
Module teaching staff:	Dr L Donaldson			

FM4794 Joint Dissertation (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
<p>The dissertation must consist of approximately 10,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>				
Pre-requisite(s):	The student requires a letter of agreement			
Anti-requisite(s)	Cannot take any more than 30 credits in other dissertation/project modules			
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 10 hours		Guided independent study: 290 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			

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FM4796 Joint Project (30cr)			
SCOTCAT Credits:	30	SCQF Level 10	Semester Both
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.		
Planned timetable:	To be arranged.		
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.			
Pre-requisite(s):	The student requires a letter of agreement		
Anti-requisite(s)	Cannot take any more than 30 credits in other dissertation/project modules		
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.		
	Scheduled learning: 10 hours	Guided independent study: 290 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: As per Letter of Agreement.		
Re-assessment pattern:	As per Letter of Agreement.		

Philosophy (PY) modules

PY3100 Reading Philosophy 1: Texts in Language, Logic, Mind, Epistemology, Metaphysics and Science

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
	This module is designed to develop the philosophical skills students have acquired over their sub-Honours years, and acquaint them with key works in core areas of philosophy. The module involves close study of philosophical texts - historical and contemporary - that address a variety of topics within metaphysics, epistemology, the philosophies of logic and language, mind and science. Students will be required to carry out close study and discussion of these texts in staff-led weekly workshops, thereby furthering their skills of critical evaluation and analysis. Students will also take turns in presenting papers to the workshop, in pair-groups, which will help them to develop important communication skills and provide an opportunity for teamwork.			
Pre-requisite(s):	If not already passed you must take at least 40 credits from any levels matching py2. Before taking this module you must pass PY1006 or pass PY1012			
Co-requisite(s):	If not already passed you must take at least 40 credits from any levels matching py2			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, and 1 hour autonomous (student-run) learning group.			
	Scheduled learning: 20 hours		Guided independent study: 280 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Coursework (including seminar presentation) = 100%			
Re-assessment pattern:	1 or more essays to a total of 7,000 words = 100%			
Module coordinator:	Dr P M Greenough			
Module teaching staff:	Team taught			

PY3200 Reading Philosophy 2: Texts in Ethics, Metaethics, Religion, Aesthetics and Political Philosophy

SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
	This module is designed to develop the philosophical skills students have acquired over their sub-Honours years, and acquaint them with key works in core areas of philosophy. The module involves close study of philosophical texts - historical and contemporary - that address a variety of topics within ethics, metaethics, aesthetics, philosophy of religion and political philosophy. Students will be required to carry out close study and discussion of these texts in staff-led weekly workshops, thereby furthering their skills of critical evaluation and analysis. Students will also take turns in presenting papers to the workshop, in pair-groups, which will help them to develop important communication skills and provide an opportunity for teamwork.			
Pre-requisite(s):	Before taking this module you must (pass PY1006 or pass PY1012) and pass 40 credits from any levels matching py2			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour seminar, and 1 hour autonomous (student-run) learning group.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework (including seminar presentation) = 100%			
Re-assessment pattern:	1 or more essays to a total of no more than 7,500 words = 100%			
Module coordinator:	Dr L A Jones			
Module teaching staff:	Team taught			

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PY3999 Special Topic in Philosophy				
SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to Colgate University students.			
Planned timetable:	To be arranged.			
To be confirmed (module taught by member of Colgate Faculty).				
Pre-requisite(s):	The student must have taken two courses in philosophy at colgate university.			
Learning and teaching methods of 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 teaching staff:	Colgate Staff representative TBC			

PY4607 Continental European Philosophy from Descartes to Leibniz				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module will focus upon the way in which Continental European philosophers of the late seventeenth and early eighteenth century explored the problems inherent in the metaphysics of Descartes. Special attention will be given to questions such as the proper definition of substance; how to understand mind-body interaction, and causation in general; and what the relation between is between God and the universe. The systems of Descartes, Malebranche, and Spinoza will be examined as three very different ways of attempting to develop a coherent set of answers to these questions. In each case an attempt will be made to connect sometimes bizarre metaphysical theses with the ordinary world as experienced by human beings and as explored by natural scientists.				
Pre-requisite(s):	Before taking this module you must pass PY1006 or pass PY1012			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 1-hour seminar and 1 other contact hour			
	Scheduled learning: 44 hours		Guided independent study: 250 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr A Xavier Douglas			
Module teaching staff:	Dr Alexander Douglas (axd)			

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PY4611 Classical Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
We shall conduct a thorough study of central and substantial texts in classical philosophy, with close attention to the philosophical implications. Examples: Plato's Theaetetus and Sophist, or Timaeus and Philebus, or Laches, Charmides, and Lysis; Aristotle's On the Soul, or Eudemian Ethics, or some books of the Physics. It is not ruled out that the focus in some years would be on the pre-socratics, or on Socrates and the 5th century sophists, or on Hellenistic philosophy, or on Platonism after Plato.				
Learning and teaching methods of 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 teaching staff:	Dr B Sattler			

PY4614 Philosophy of Mind				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Before taking this module you must pass PY1006 or pass PY1012			
Anti-requisite(s)	You cannot take this module if you take PY3002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr S J Prosser			
Module teaching staff:	Dr S Prosser			

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PY4618 Animals, Minds and Language				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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?				
Learning and teaching methods of 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 teaching staff:	Dr D Ball			

PY4624 Philosophy of Art				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
What makes an object a work of art? Are artworks always physical objects, or can they be mental, or abstract, entities? Can good art be morally bad? How is conceptual art to be understood, and appreciated? This module examines some of the fundamental contemporary debates in philosophy of art, including issues concerning the nature and definition of art, problems regarding representation and expression (how exactly do works of art represent, or express anything?), the relation of art to ethics, and the value of art. In the course of addressing these issues, we will read the work of aestheticians from ancient times to the present day.				
Pre-requisite(s):	Before taking this module you must pass PY1006 or pass PY1012			
Anti-requisite(s)	You cannot take this module if you take PY4812			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework (including take-home examination) = 100%			
Re-assessment pattern:	Coursework (including take-home examination) = 100%			
Module coordinator:	Dr L A Jones			
Module teaching staff:	Dr L Jones			

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PY4634 Philosophy of Logic				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
The module covers philosophical issues that arise in connection with the foundation of logic. These include questions like: What is the correct logic, and how would we know?; questions about how to understand what truth is, and paradoxes that arise from trying to provide a consistent account of truth; questions about how to handle vagueness in a logical system; and questions about the nature of possibility and necessity.				
Pre-requisite(s):	Before taking this module you must pass PY2010 or pass PY2010			
Anti-requisite(s)	You cannot take this module if you take PY4804			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar.			
	Scheduled learning: 33 hours		Guided independent study: 267 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr A Cotnoir			

PY4639 Philosophy of Creativity				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass PY1006 or pass PY1012			
Learning and teaching methods of 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:	3-hour Written Examination = 50%, Coursework = 50%			
Module coordinator:	Prof B N Gaut			
Module teaching staff:	Prof B Gaut			

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PY4643 Philosophy of Law				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must take PY1006			
Learning and teaching methods of 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:	3-hour Written Examination = 50%, Coursework = 50%			
Module teaching staff:	to be confirmed			

PY4644 Rousseau on Human Nature, Society, and Freedom				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
What kind of political freedom is possible in the modern world? In particular, is republican political freedom possible, the freedom of an autonomous sovereign people? Jean-Jacques Rousseau (1712-1778) argues that it is, despite the many ways in which politics has changed since the republics of ancient Athens and ancient Rome. The people do not have to hand over their sovereignty to their governors. Politics can be structured so that society's most fundamental laws are made by the people themselves. We will examine this revolutionary idea by way of a close reading of Rousseau's <i>The Social Contract</i> , giving special attention to the crucial distinction between 'sovereignty' and 'government'. We will bring out Rousseau's radicalism through a contrast with the theory of political freedom proposed by Montesquieu in <i>The Spirit of the Laws</i> . And we will explore the distinctively modern character of Rousseau's republicanism by grounding it in his historicized analysis of human nature.				
Pre-requisite(s):	Before taking this module you must pass PY1006 or pass PY1012			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Prof J A Harris			
Module teaching staff:	Prof J Harris			

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PY4648 Conceptual Engineering and its Role in Philosophy

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>The module provides an introduction to the ways in which we can criticise and improve our concepts - what is sometimes called 'conceptual engineering'. The concepts we have can be problematic for a number of reasons: they can be politically or ethically objectionable, inconsistent, unacceptably indeterminate or vague, or have other undesirable features. One task of philosophy is to discover such conceptual deficiencies and provide strategies for improving our conceptual repertoire. We may ask, for instance: should a theory of truth describe our concept of truth, or replace it with a better one? Is one goal of political philosophy to improve the concepts we use for thinking about social reality? If the answer to such questions is yes, then how do we go about doing it?</p>				
Pre-requisite(s):	Before taking this module you must pass PY1006 or pass PY1012			
Anti-requisite(s)	You cannot take this module if you take PY4601			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Dr P M Greenough			
Module teaching staff:	Dr P Greenough			

PY4650 Philosophy, Feminism and Gender

SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>This module will introduce students to important metaphysical, epistemological, linguistic, and ethical issues concerning gender, via the arguments and methodology of analytic feminism. Questions addressed may include: what is gender? What might it mean to claim that reason, rationality or knowledge is gendered? Or that language is gendered? How is gender relevant to ethical concerns? How might an understanding of gender impact our thinking about concepts such as equality, justice, and difference? In considering such issues, we will also pay attention to the ways in which gender interacts with other factors, such as race, ethnicity, and social class.</p>				
Learning and teaching methods of delivery:	Weekly contact: 2-hour lecture, 1 hour seminar, 1 office hour			
	Scheduled learning: 44 hours		Guided independent study: 259 hours	
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 teaching staff:	Dr A Duncan-Kerr			

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PY4652 The Philosophy of Human Rights				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
<p>We will explore cutting-edge research on the nature, content, and justification of human rights. We begin by examining the origins of human rights and the implications this has for the philosophical understanding thereof (focusing in particular on anti-slavery courts and on the 1948 Universal Declaration of Human Rights). We explore current debates by political philosophers and international legal theorists over how we should properly conceive of human rights, the relationship between their status as moral and legal norms, and the nature of human dignity, to which the major human rights declarations appeal. The module also examines the significance of the fact that human rights are rights, as well as considering critical perspectives on the human rights movement.</p>				
Learning and teaching methods of delivery:	Weekly contact: 2-hour lecture, 1 hour seminar, 1 office hour			
	Scheduled learning: 44 hours		Guided independent study: 259 hours	
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 teaching staff:	Dr E Ashford, Dr A Etinson			

PY4657 Philosophy of Economics				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
<p>This applied philosophy module surveys a variety of methodological and normative issues at the intersection of philosophy and economics. Students will learn some theories of scientific explanation 'the deductive-nomological model, new mechanism, interventionism, etc.' and apply these to basic explanatory methods in economics such as decision theory, game theory, statistical analysis, etc. They will also apply theories of ethics and political philosophy to areas of normative economics such as social choice theory, behavioral economics and the defense of capitalism. Prior familiarity with economics is not presupposed, nor advanced mathematics, but students must be prepared to encounter some challenging material. The module is run conjointly with the economics department and thus students must be willing to venture outside pure philosophy. In return, they will have the opportunity to engage with economics students, opening up a dialogue from which both sides stand to learn a great deal.</p>				
Anti-requisite(s)	You cannot take this module if you take EC4426			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: 25% written exam (class test); 75% coursework (3 elements)			
Re-assessment pattern:	100% coursework			
Module coordinator:	Dr B A Sachs			
Module teaching staff:	Dr B Sachs , Dr A Douglas, Dr T Cuhadaroglu			

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PY4658 Timely Topics in Political Philosophy

SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
This module explores a variety of topics in political philosophy that are especially timely today. Because an emphasis is placed on timeliness, the topics addressed in the module may change from year to year, and depending on the judgment of the instructor. A full description of the module content for any given year will be provided in the Philosophy Pre-advising Handbook. The philosophical arguments and authors discussed in the module may be historical or contemporary. Their selection will depend exclusively on whether they engage directly with pressing issues of the day. In its essence, the course is designed to teach students how to use philosophical tools to reflect on the current political moment.				
Pre-requisite(s):	Before taking this module you must pass PY1012			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour seminar. Optional office hour.			
	Scheduled learning: 33 hours		Guided independent study: 263 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: 100% Coursework			
Re-assessment pattern:	100% Coursework			
Module coordinator:	Dr A D Etinson			
Module teaching staff:	Dr A Etinson			

PY4698 Dissertation (Whole Year)

SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Not applicable.			
This module aims to develop the philosophical skills of literature review, accurate exposition, clear analysis, and critical thinking for oneself, by writing a dissertation on a selected topic, with the supervision of a tutor. A student must secure the agreement of a member of staff to supervise the work (ideally during the summer before the academic session in which the dissertation is taken), and submit the appropriate application form for the approval of the Honours Adviser before the end of advising Semester One.				
Pre-requisite(s):	Before taking this module you must pass PY1006 or pass PY1012			
Anti-requisite(s)	You cannot take this module if you take PY4699 or take PY4701			
Learning and teaching methods of 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			

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PY4699 Dissertation in Philosophy				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	Not applicable.			
This module aims to develop the philosophical skills of literature review, accurate exposition, clear analysis, and critical thinking for oneself, by writing a dissertation on a selected topic, with the supervision of a tutor. A student must secure the agreement of a member of staff to supervise the work (ideally during the summer before the academic session in which the dissertation is taken), and submit the appropriate application form for the approval of the Honours Adviser before the end of advising Semester One.				
Pre-requisite(s):	Before taking this module you must pass PY1006 or pass PY1012			
Anti-requisite(s)	You cannot take this module if you take PY3803 or take PY4698 or take PY4802 or take PY4701			
Learning and teaching methods of delivery:	Weekly contact: 5 supervision meetings over one semester, plus 1 x 2-hour training session.			
	Scheduled learning: 7 hours		Guided independent study: 293 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	No Re-assessment available			

PY4701 Philosophy and Pedagogy				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass PY1006			
Co-requisite(s):	You must also take ID4002			
Learning and teaching methods of delivery:	Weekly contact: Fortnightly supervision sessions.			
	Scheduled learning: 6 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	1 or more essays to a total of 5,000 words			
Module coordinator:	Dr L A Jones			
Module teaching staff:	Dr L Jones			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

PY4794 Joint Dissertation (30cr)			
SCOTCAT Credits:	30	SCQF Level 10	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.		
Planned timetable:	To be arranged.		
<p>The dissertation must consist of approximately 6,000 words of English prose on a topic agreed between the student and two appropriate members of staff (who act as supervisors). The topic does not have to relate to work covered in previous Honours modules, though it may be helpful to the student if it builds on previous work. The topic and range of sources should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)</p>			
Pre-requisite(s):	Students must have a letter of agreement		
Anti-requisite(s)	Cannot take more than 30 credits in other dissertation/project modules		
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.		
	Scheduled learning: 0 hours	Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: As per Letter of Agreement.		
Re-assessment pattern:	As per Letter of Agreement.		

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

Social Anthropology (SA) modules

SA3032 Regional Ethnography 1			
SCOTCAT Credits:	30	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	1.00 pm Mon		
This module focuses on selected ethnographic regions of the world, and investigates the central themes in the anthropological studies of their peoples and cultures.			
Learning and teaching methods of 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 teaching staff:	TBA		

SA3033 Cold War Ethnography			
SCOTCAT Credits:	30	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	To be arranged		
This module focuses on selected ethnographic regions of the world, and investigates the central themes in the anthropological studies of their peoples and cultures.			
Learning and teaching methods of delivery:	Weekly contact:		
	Scheduled learning: 0 hours	Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews:		
Module coordinator:	Dr S Pipyrou		
Module teaching staff:	Dr Stavroula Pipyrou		

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

SA3048 The Anthropology of Art				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged			
The module begins by addressing the relations between art and anthropology, and explores what anthropologists can say about aesthetic experience through a range of ethnographic examples. It then addresses the growing epistemological entanglement of contemporary art and anthropology. Contemporary artists are increasingly concerned with anthropological issues and the 'art world' is continuously growing, embracing new artists and cultural communities. What understanding can anthropology bring to the questions that plague contemporary art? Can the work of contemporary artists help anthropology develop new forms of research and output?				
Pre-requisite(s):	Before taking this module you must pass SA2001 and pass SA2002			
Learning and teaching methods of delivery:	Weekly contact:			
	Scheduled learning: 42 hours		Guided independent study: 262 hours	
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%			

SA3055 Anthropology and History				
SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
Ethnohistory is the study of native and/or non-Western peoples from a combined historical and anthropological viewpoint, using written documents, oral literature, material culture and ethnographic data. Ethnohistory uses both historical and ethnographic data as its foundation. Its historical methods and materials go beyond the standard use of books and manuscripts. Practitioners recognize the utility of maps, music, paintings, photography, folklore, oral tradition, ecology, site exploration, archaeological materials, museum collections, enduring customs, language, and place names. It incorporates the critical use of ethnological concepts and materials in the examination and use of historical source material. Axtell has described ethnohistory as essentially, the use of historical and ethnological methods to gain knowledge of the nature and causes of change in a culture defined by ethnological concepts and categories (Axtell 1979). Ethnohistory takes into account the people's own sense of how events are constituted, and their ways of culturally constructing the past. It is a holistic, diachronic approach that is often most rewarding when it can be joined to the memories and voices of living people. This module will present readings, lectures and discussions about the relationship of history and anthropology. Topics examined include but are not limited to: microhistory; language and translation; ethnohistory and archaeology; writing systems; archival research; working with images and material objects; and ethics.				
Pre-requisite(s):	Before taking this module you must pass SA2002			
Learning and teaching methods of 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:	3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Module coordinator:	Prof S P Hyland			
Module teaching staff:	Dr S Hyland			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

SA3057 Sex and Gender				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass SA2001 and pass SA2002			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Dr P Gay y Blasco			

SA3059 Colonial and Post-Colonial Representations				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass SA2001 and pass SA2002			
Learning and teaching methods of 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:	Coursework = 100%			
Module coordinator:	Dr M C Frankland			
Module teaching staff:	Dr M Frankland			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

SA3060 Contemporary Issues in Social Anthropology

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
these issues contribute to the discipline. The purpose of the module is to provide a forum in which students can learn about theoretical and empirical themes that are at the leading edge of current anthropological research. The content and focus will therefore shift from year to year in line with new intellectual developments in the discipline.				
Pre-requisite(s):	Before taking this module you must pass SA2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture, 1 x 2-hour seminar.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Re-assessment pattern:	6,000-word Essay = 100%			
Module teaching staff:	Team taught			

SA3064 The Anthropology of Migration

SCOTCAT Credits:	30	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Before taking this module you must pass SA2001 and pass SA2002			
Learning and teaching methods of 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:	3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Module coordinator:	Dr M Fumanti			

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SA3506 Methods in Social Anthropology				
SCOTCAT Credits:	30	SCQF Level 9	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not available to General Degree students			
Planned timetable:	To be arranged.			
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.				
Pre-requisite(s):	Before taking this module you must pass SA2001 and pass SA2002			
Learning and teaching methods of 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 teaching staff:	TBA			

SA4059 Living with Material Culture				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
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-mem-bering 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).				
Pre-requisite(s):	Before taking this module you must pass SA2001 and pass SA2002			
Learning and teaching methods of 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:	3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Module coordinator:	Dr S J Bunn			
Module teaching staff:	Dr Stephanie Bunn			

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SA4061 Contagion: Anthropology and Global Health				
SCOTCAT Credits:	30	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged			
The aim of the module is to examine in depth contagion and the questions it raises in our interconnected world, and introduce students to the way in which anthropology can contribute to the advancement and betterment of Global Health.				
Learning and teaching methods of delivery:	Weekly contact: 1 seminar (X11 weeks), 1 tutorial (x11 weeks)			
	Scheduled learning: 33 hours		Guided independent study: 275 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr C Lynteris			

SA4062 Anthropology of Justice				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to Honours Social Anthropolgy students unless with permission of the module convenor.			
Planned timetable:	Lecture - Mon, Wed - time tbc Practical - Friday 2pm			
This module offers an anthropological perspective on justice and justice-seeking both 'inside' and 'outside' of national and international legal instruments. It explores the history of the relationship between anthropology and law as disciplines, and demonstrates how many emergent socio-legal dilemmas can be investigated using the toolkit of anthropology. It should be noted that this not a module instructing students in legal techniques or concepts, but rather, approaches law and justice as ethnographic subjects of inquiry. In doing so we will consider subjects such as language, gender, class, and religion and their effects upon the experiences of people involved in processes of conflict and their resolution. Finally we will ask how well law 'travels' between societies, and between different levels of the same society: how do concepts such as legal pluralism, the cultural defense, and universal human rights affect the theory and practice of law?				
Learning and teaching methods of delivery:	Weekly contact: 1 lecture x 11 weeks, 1 seminar x 11 weeks, 1 case study presentation session.			
	Scheduled learning: 35 hours		Guided independent study: 265 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 50%, 2-hour Written Examination = 50%			
Re-assessment pattern:	Coursework = 50%, 2-hour Written Examination = 50%			
Module coordinator:	Dr M A Demian			
Module teaching staff:	Dr M Demian			

Philosophical, Anthropological & Film Studies - Honours Level - 2018/9 - August - 2018

SA4098 Library-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students taking Single Honours, Joint Honours and Major Degrees			
Planned timetable:	To be arranged.			
The module consists of a supervised exercise in social anthropological enquiry. This will include a library-based independently researched dissertation, up to 10,000-words. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Pre-requisite(s):	Before taking this module you must pass SA2001 and pass SA2002			
Anti-requisite(s)	You cannot take this module if you take SA4099			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour tutorial.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: 7,500-word Dissertation = 100%			
Re-assessment pattern:	7,500-word Essay = 100%			
Module coordinator:	Dr C T Lind			

SA4099 Primary Research-based Dissertation				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students taking Single Honours, Joint Honours and Major Degrees			
Planned timetable:	To be arranged.			
This module allows advanced undergraduate students to engage in a supervised research project on a topic of their choice. Student will apply theoretical and substantive knowledge from the discipline of social anthropology to a body of ethnographic data obtained from fieldwork and bibliographic sources. (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Pre-requisite(s):	Before taking this module you must pass SA3506			
Anti-requisite(s)	You cannot take this module if you take SA4098			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour tutorial.			
	Scheduled learning: 22 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: 10,000-word Dissertation = 100%			
Re-assessment pattern:	10,000-word Essay = 100%			
Module teaching staff:	TBC			

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SA4857 West Africa				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
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.				
Pre-requisite(s):	Before taking this module you must pass SA2001 and pass SA2002			
Learning and teaching methods of 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:	3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Module coordinator:	Prof R M Dilley			
Module teaching staff:	Prof R Dilley			

SA4864 Melanesian Anthropology				
SCOTCAT Credits:	30	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
Melanesia has long provided anthropology with some of its more challenging ethnographies, and stimulated theoretical developments regarding exchange, kinship, politics, gender and ecology. These domains will be explored through a discussion of the aesthetics of Melanesian sociality, tacking back and forth between current issues and earlier ethnographies, with the aim of apprehending the predicaments of contemporary life. We will also consider the continuing stimulus for anthropology, and discuss recent methodological moves which make deliberate borrowings from Melanesia. One objective will be to describe what a truly Melanesian anthropology would look like.				
Learning and teaching methods of 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:	3-hour Written Examination or Take-Home Examination = 50%, Coursework = 50%			
Module coordinator:	Dr T Crook			

School of Physics & Astronomy

Astronomy (AS) modules

AS3013 Computational Astrophysics			
SCOTCAT Credits:	15	SCQF Level 9	Semester
Academic year:	2018/9		
Planned timetable:	2.00 pm - 5.30 pm Mon and Thu (TBC)		
The aim of this module is to introduce students to computational methods in astrophysics. Based on a general introduction to the programming language Fortran-90, students are shown how to apply simple numerical algorithms to calculate integrals, iteratively find the roots of non-linear equations, solve systems of ordinary differential equations, and to develop tools for statistical data analysis. Further emphasis is put on the development of skills to make convincing plots from the calculated data. The practical exercises include applications to the initial mass function in star formation, the calculation of orbits for N-body gravitational problems and in mean galactic potentials, and planet transition light-curves. Students gain experience with the basics of numerical accuracy, and the development of problem-solving algorithms in general.			
Pre-requisite(s):	Before taking this module you must pass PH2011 and pass PH2012 and pass MT2501 and pass MT2503		
Learning and teaching methods of delivery:	Weekly contact: 2 x 3.5-hour supervised or taught sessions (x 10 weeks). Mostly hands-on guided work on computers, but with occasional presentation.		
	Scheduled learning: 70 hours	Guided independent study: 80 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework (practical work, the submission of computer code and computational solutions to given problems) = 100%		
Re-assessment pattern:	No Re-assessment available - laboratory based		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules.		

Physics & Astronomy - Honours Level - 2018/9 - August - 2018

AS4010 Extragalactic Astronomy			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	12.00 noon Mon, Tue, Thu (TBC)		
<p>This module introduces the basic elements of extragalactic astronomy. This includes the morphological, structural and spectral properties of elliptical, spiral, quiescent and star-forming galaxies. We study how galaxy populations change from the distant galaxies in the early Universe into those observed in our local neighbourhood, including the coincident growth of super massive black holes at the centres of massive galaxies. Galaxy formation theory is introduced in relation to the growth of structure in a cold-dark matter Universe, and galaxy evolution in regions of high and low density is investigated. The module includes a look at modern instrumentation used in extragalactic astrophysics. Specialist lecturers from within the galaxy evolution research group will provide a direct link between material learnt in lectures and research currently being undertaken at the University of St Andrews.</p>			
Pre-requisite(s):	Before taking this module you must (pass AS2001 or pass AS2101) and pass PH2011 and pass PH2012 and pass MT2501 and pass MT2503		
Anti-requisite(s)	You cannot take this module if you take AS3011 or take AS4022		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures occasionally replaced by 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 = 80%, Coursework (10% Class Test, 10% Computer Based Assignment) = 20%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules.		

AS4011 The Physics of Nebulae and Stars 1			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	10.00 am Tue, Wed, Thu (TBC)		
<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>			
Pre-requisite(s):	Before taking this module you must (pass AS2001 or pass as2101) and pass PH2011 and pass PH2012 and (pass MT2001 or (pass MT2501 and pass mt2503)) and (pass PH3081 or pass PH3082 or pass MT2003 or (pass MT2506 and pass mt2507))		
Anti-requisite(s)	You cannot take this module if you take AS4023 or take AS3015		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules		

Physics & Astronomy - Honours Level - 2018/9 - August - 2018

AS4012 The Physics of Nebulae and Stars 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	11.00 am odd Mon, Wed, Fri, 3.00 pm even Tue (TBC)		
<p>This module develops the physics of stellar interiors and atmospheres from the basic equations of stellar structure introduced in AS2001/AS2101 using the radiative transfer concepts developed in Nebulae and Stars I. Topics include: the equation of state that provides pressure support at the high temperatures and densities found in normal and white-dwarf stars; the interaction of radiation with matter, both in terms of radiation-pressure support in super-massive stars and in terms of the role of opacity in controlling the flow of energy from the stellar interior to the surface; the equation of radiative transfer and the effects of local temperatures, pressures and velocity fields on the continuum and line absorption profiles in the emergent spectrum. Computer-aided tutorial exercises illustrate the computational schemes that represent one of the triumphs of late twentieth-century physics, in their ability to predict the observable properties of a star from its radius and luminosity, which in turn are determined by its mass, age and chemical composition.</p>			
Pre-requisite(s):	Before taking this module you must pass AS4011		
Anti-requisite(s)	You cannot take this module if you take AS4023 or take AS3015		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules		

Physics & Astronomy - Honours Level - 2018/9 - August - 2018

AS4015 Gravitational and Accretion Physics			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	9.05 am - 12.00 noon Mon, Wed, Fri		
<p>This theoretical module is open to both physics and astrophysics students. It aims to explore the basics of gravitational dynamics and its application to systems ranging from planetary and stellar systems to clusters of galaxies. The dynamics responsible for the growth of super-massive black holes in galaxies and the accretion discs in stellar systems are also covered. Starting from two-body motion and orbits under a central-force law, the module describes the calculation of extended potentials and their associated orbits. The use of the virial theorem and the statistical treatment of large numbers of selfgravitating bodies is then developed with application to stellar systems. Applications of these methods are made to several different astrophysical objects ranging from collisions in globular clusters to the presence of dark matter in the universe.</p>			
Pre-requisite(s):	Before taking this module you must pass PH2011 and pass PH2012 and pass MT2501 and pass MT2503 and (pass PH3081 or pass PH3082 or (pass MT2506 and pass mt2507))		
Anti-requisite(s)	You cannot take this module if you take or have taken AS4021		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures occasionally replaced by whole-group tutorials.		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 100%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules		

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AS4025 Observational Astrophysics			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	2.00 pm - 5.30 pm Mon and Thu, plus some nights. (TBC)		
<p>This is an observational and laboratory-based module that introduces students to the hands-on practical aspects of planning observing programmes, conducting the observations and reducing and analysing the data. Students use the James Gregory Telescope for CCD imaging and structural analysis of galaxies, and for CCD photometry of transiting exoplanet candidates. Further sources of data may be made available from international observatories. Observations are also secured at the University Observatory using a student-built radio telescope to observe low-frequency radio emission from the Galactic plane. Students gain experience in observation, data analysis, the UNIX operating system, standard astronomical software packages and modelling, and report writing.</p>			
Pre-requisite(s):	Before taking this module you must (pass AS2001 or pass AS2101) and pass PH2011 and pass PH2012 and (pass MT2001 or pass 2 modules from {MT2501, MT2503})		
Learning and teaching methods of 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 teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules.		

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AS4103 Astrophysics Project (BSc)			
SCOTCAT Credits:	30	SCQF Level 10	Semester Full Year
Academic year:	2018/9		
Availability restrictions:	Available only to BSc Astrophysics students, and normally only in their final year.		
Planned timetable:	Half time in second semester, plus some preparation in first semester.		
<p>The project aims to develop students' skills in searching the physics literature and in experimental design, the evaluation and interpretation of data, and in the presentation of results. The main project is preceded by a pre-project report on a topic which is usually related to the theme of the project. There is no specific syllabus for this module. Students taking the BSc degree select a project from a list offered, and are supervised by a member of staff. Project choice and some preparatory work is undertaken in semester one, but normally most of the 30 credits' worth of work is undertaken in semester two. 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>			
Pre-requisite(s):	Entry to final year of bsc astrophysics programme. . Before taking this module you must pass PH2011 and pass PH2012 and (pass MT2001 or (pass MT2501 and pass mt2503)) and (pass PH3081 or pass PH3082 or pass MT2003 or (pass MT2506 and pass MT2507)) and pass AS3013 and pass PH3081 and pass PH3012		
Anti-requisite(s)	You cannot take this module if you take AS5101 or take PH4111 or take PH5101 or take PH5103		
Learning and teaching methods of delivery:	<p>Weekly contact: Project students work 'half-time' on their project through semester 2. All students must meet weekly with their project supervisor and attend fortnightly meetings with their peer-support group. Most projects are based in computer clusters in the School, where students can benefit from peer support and informal interaction with academic supervisor and other members of research teams. It is expected that the 20 hours a week will be primarily in this environment.</p>		
	Scheduled learning: 18 hours	Guided independent study: 282 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%</p>		
	<p>As used by St Andrews: Coursework (Review Article, Project Report, Presentation and Oral Examination) = 100%</p>		
Re-assessment pattern:	No Re-assessment available - Final year project		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules		

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AS5001 Advanced Data Analysis			
SCOTCAT Credits:	15	SCQF Level 11	Semester 1
Academic year:	2018/9		
Availability restrictions:	This module is intended for students in the final year of an MPhys or MSci programme involving the School, and for those taking the MSc in Astrophysics.		
Planned timetable:	9.00 am Tue, Thu, 10.00 am Mon, 12.00 noon Thu and 3.00 pm - 5.00 pm Tue (Lab) (TBC)		
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.			
Pre-requisite(s):	Familiarity with scientific programming language essential, for example through AS3013 or PH3080. Entry to an mphys programme in the school or the msc in astrophysics.		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures or tutorials and some supervised computer lab sessions		
	Scheduled learning: 42 hours	Guided independent study: 108 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	No Re-assessment available - laboratory based		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules		

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AS5002 Magnetofluids and Space Plasmas

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	This module is intended for students in the final year of an MPhys or MSci programme involving the School, and for those on the Astrophysics MSc			
Planned timetable:	11.00 am Mon, Tue, Thu (TBC)			
<p>This module is aimed at both physics and astrophysics students with interests in the physics of plasmas. The interaction of a magnetic field with an ionized gas (or plasma) is fundamental to many problems in astrophysics, solar-terrestrial physics and efforts to harness fusion power using tokamaks. The syllabus comprises: Solar-like magnetic activity on other stars. The basic equations of magneto-hydrodynamics. Stellar coronae: X-ray properties and energetics of coronal loops. Energetics of magnetic field configurations. MHD waves and propagation of information. Solar and stellar dynamos: mean field models. Star formation: properties of magnetic cloud cores, magnetic support. Physics of accretion discs: transport of mass and angular momentum. Accretion on to compact objects and protostars. Rotation and magnetic fields in protostellar discs. Rotation distributions of young solar-type stars. Magnetic braking via a hot, magnetically channelled stellar wind.</p>				
Pre-requisite(s):	Before taking this module you must pass 1 module from {PH3007, MT4510, MT4533} and pass 1 module from {AS3013, PH4030, PH3080, MT3802, MT4112}			
Learning and teaching methods of 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 teaching staff:	TBC			
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules			

AS5003 Contemporary Astrophysics

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to MPhys Astronomy students or a taught postgraduate programme in the School.			
Planned timetable:	12.00 noon Wed, Fri and 3.00 pm Mon (TBC)			
<p>This module will provide an annual survey of the latest, most interesting, developments in astronomy and astrophysics at the research level. Emphasis will be placed upon the application of knowledge and expertise gained by students in their other modules to these current research topics.</p>				
Pre-requisite(s):	For myphys: before taking this module you must pass AS4010, AS4012, PH3061 and ph3081 for msc: students must have substantial astronomy knowledge and skills			
Learning and teaching methods of delivery:	Weekly contact: 3 lectures and tutorials			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 100%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules			

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AS5101 Astrophysics Project (MPhys)			
SCOTCAT Credits:	60	SCQF Level 11	Semester
Academic year:	2018/9		
Availability restrictions:	Available only to final year MPhys Astronomy students		
Planned timetable:	Full time in second semester, plus some preparation in first semester.		
<p>The project aims to develop students' skills in searching the appropriate literature, in experimental and observational design, the evaluation and interpretation of data, and the presentation of a report. The main project is preceded by a pre-project report. There is no specific syllabus for this module. Students taking the MPhys degree select a project from a list of those which are available, and are supervised by a member of the academic staff. Project choice and some preparatory work is undertaken in semester one, but normally most of the 60 credits' worth of work is undertaken in semester two. 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>			
Pre-requisite(s):	Available only to final year mphys astrophysics students. Before taking this module you must pass PH2011 and pass PH2012 and ((pass PH3081 or pass PH3082) or (pass MT2506 and pass MT2507)) and pass AS3013 and pass AS4012		
Anti-requisite(s)	You cannot take this module if you take AS4103 or take PH4111 or take PH5101 or take PH5103 or take PH4796		
Learning and teaching methods of 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: 21 hours	Guided independent study: 579 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 teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for the modules		

Physics (PH) modules

PH3007 Electromagnetism			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	9.05 am Mon even numbered weeks, 9.05 Tue, Thu, 15.05 Fri odd-numbered weeks (TBC)		
The properties of electromagnetic fields will be explored using a variety of mathematical tools (in particular, vector and differential calculus). Topics will include: charge and current distributions, electro- and magnetostatics, materials, electrodynamics, conservation principles, electromagnetic waves and radiation. This module builds on knowledge and skills acquired in prior coursework by developing techniques for solving more advanced problems in electromagnetism.			
Pre-requisite(s):	Before taking this module you must (pass PH3081 or pass PH3082 or pass MT2003 or pass MT2506) and pass PH2012 and (pass MT2001 or pass MT2501 and pass MT2503)		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures and fortnightly tutorials.		
	Scheduled learning: 36 hours	Guided independent study: 114 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework (class tests 30%) = 40%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for First and Second Level modules available via st-andrews.ac.uk/physics/staff_students/timetables.php . This link also gives access to timetables for such modules.		

PH3012 Thermal and Statistical Physics			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	12.00 noon odd Mon, Wed, Fri, 2.00 pm even Tue (TBC)		
The aim of this module is to cover at honours level the principles and most important applications of thermodynamics and statistical mechanics. The syllabus includes: 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.			
Pre-requisite(s):	Before taking this module you must pass at least 1 module from {PH3081, PH3082} or pass 2 modules from {MT2506, MT2507}		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures or tutorials.		
	Scheduled learning: 36 hours	Guided independent study: 114 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		

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PH3014 Transferable Skills for Physicists				
SCOTCAT Credits:	15	SCQF Level 9	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students.			
Planned timetable:	10.00 am Wed, occasional 10.00 am Fri (TBC)			
The aim of the module is to develop the key skills of oral and written communication, information technology, team working and problem solving. This will be done in the context of physics and astronomy, thus extending student knowledge and understanding of their chosen subject. Guidance, practice and assessment will be provided in the preparation and delivery of talks, critical reading of the literature, scientific writing, developing and writing a case for resources to be expended to investigate a particular area of science, tackling case studies.				
Pre-requisite(s):	Entry to the school's honours programme. . Before taking this module you must pass PH2012 and (pass MT2501 and pass MT2503)			
Anti-requisite(s)	You cannot take this module if you take PH4040			
Learning and teaching methods of delivery:	Weekly contact: Through the year there are 8 lectures, 9 tutorials, 1 workshop, and about 14 hours of presenting and/or critically evaluating talks.			
	Scheduled learning: 37 hours		Guided independent study: 113 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 35%, Coursework = 65%			
	As used by St Andrews: Coursework on basis of exercises and 2 oral presentations = 100%			
Re-assessment pattern:	No Re-assessment available - Assignment based			
Module teaching staff:	TBC			

PH3061 Quantum Mechanics 1				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am Tue, Thu (TBC)			
This module introduces the main features of quantum mechanics. The syllabus includes: early ideas on quantisation, the emergence of the Schrödinger equation, the interpretation of the wave function and Heisenberg's uncertainty relation. The concepts of eigenfunctions and eigenvalues. Simple one-dimensional problems including potential wells and the harmonic oscillator. Solution of the Schrödinger equation for central forces, the radial Schrödinger equation, and the hydrogen atom.				
Pre-requisite(s):	Before taking this module you must pass PH2012 and (pass MT2501 and pass MT2503)			
Co-requisite(s):	You must also take PH3081 or take PH3082 or (pass MT2506 and pass MT2507)			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures and fortnightly tutorials.			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 94%, Practical Examinations = 0%, Coursework = 6%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework (incl Class Test 14%)= 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			

PH3062 Quantum Mechanics 2				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	9.00 am Wed, Fri (TBC)			
This module explores more of the key concepts of quantum mechanics, assuming a knowledge of the material in PH3061. The syllabus includes time-independent and time-dependent perturbation theory, including the treatment of degenerate states. The course includes a matrix description of spin, the Bloch sphere representation of spin, systems of interacting spins, and the quantum mechanics of a system of identical particles, which leads to the distinction between fermions and bosons.				
Pre-requisite(s):	If not already passed you must take PH3061			
Co-requisite(s):	If not already passed you must take PH3061			
Learning and teaching methods of delivery:	Weekly contact: 2 lectures and fortnightly tutorials.			
	Scheduled learning: 27 hours		Guided independent study: 73 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 95%, Practical Examinations = 0%, Coursework = 5%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework (incl Class Test 15%) = 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			

PH3074 Electronics				
SCOTCAT Credits:	15	SCQF Level 9	Semester	1
Academic year:	2018/9			
Planned timetable:	9.00 am Mon, Wed, Fri, 11.00 am Fri lab (TBC)			
This module provides a basic grounding in practical electronics. It introduces and develops the basic principles underlying the synthesis and analysis of analogue circuits. The module is divided into two parts: passive circuits, beginning with a review of dc circuit theory before moving onto complex impedance, passive ac circuits and diode applications; active circuits and amplifiers, including simple bipolar and FET amplifiers, operational and instrumentation amplifiers and applications.				
Pre-requisite(s):	Before taking this module you must pass PH2011 and pass PH2012 and (pass MT2001 or pass MT2501 and pass MT2503)			
Learning and teaching methods of delivery:	Weekly contact: 3 lectures, tutorials or short lab sessions			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			

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PH3080 Computational Physics			
SCOTCAT Credits:	10	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	One of Mon 2-4, Tue 2-4, Tue 4-6 and one of Thu 2-4, Thur 4-6, Fri 2-4 (TBC)		
This module is designed to develop a level of competence in Mathematica, a modern programming language currently used in many physics research labs for mathematical modelling. No prior experience is required. The module starts with a grounding in the use of Mathematica and discusses symbolic solutions and numerical methods. The main focus is then on the ways in which Mathematica can be used for problem solving in physics and astrophysics.			
Pre-requisite(s):	Before taking this module you must pass PH2012 and (pass MT2501 and pass MT2503)		
Anti-requisite(s)	You cannot take this module if you take PH3082		
Learning and teaching methods of delivery:	Weekly contact: 4 hours supervised PC Classroom		
	Scheduled learning: 44 hours	Guided independent study: 56 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 59%, Coursework = 41%		
	As used by St Andrews: 3-hour Computer-based Examination = 50%, Coursework (Quizzes) = 50%		
Re-assessment pattern:	No Re-assessment available - laboratory based		
Module teaching staff:	TBC		

PH3081 Mathematics for Physicists			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	10.00 am Tue, Thu and even Mon, 2.00 pm odd Mon (TBC)		
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.			
Pre-requisite(s):	Before taking this module you must pass PH2011 and pass PH2012 and (pass MT2501 and pass MT2503)		
Anti-requisite(s)	You cannot take this module if you take PH3082 or take MT3506		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures plus fortnightly tutorials.		
	Scheduled learning: 36 hours	Guided independent study: 114 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20% (made up of Class Test = 15% and meaningful engagement with tutorial work = 5%)		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		

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PH3082 Mathematics for Chemistry / Physics

SCOTCAT Credits:	20	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to Chemistry and Physics MSci students			
Planned timetable:	10.00 am odd Mon, Tue, Thu, 2.00 pm odd Mon, 3.00 pm Mon, and two x 2 hrs on two of Mon, Tue, Thu, Fri afternoons (TBC)			
<p>This module consists of the content and assessment of all of PH3081 and the first part of PH3080. The module aims to develop mathematical techniques that are required by a professional physicist or astronomer. There is particular emphasis on the special functions which arise as solutions of differential equations which occur frequently in physics, and on vector calculus. Analytic mathematical skills are complemented by the development of computer-based solutions. The emphasis throughout is on obtaining solutions to problems in physics and its applications. Specific topics to be covered will be Fourier transforms, the Dirac delta function, partial differential equations and their solution by separation of variables technique, series solution of second order ODEs, Hermite polynomials, Legendre polynomials and spherical harmonics. The vector calculus section covers the basic definitions of the grad, div, curl and Laplacian operators, their application to physics, and the form which they take in particular coordinate systems. In the other section of the module students are introduced to the Mathematica package, and shown how this can be used to set up mathematical models of physical systems.</p>				
Pre-requisite(s):	Entry to msci chemistry and physics degree programme. Before taking this module you must pass PH2012 and (pass MT2501 and pass MT2503)			
Anti-requisite(s)	You cannot take this module if you take PH3080 or take PH3081 or take MT3506			
Learning and teaching methods of delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks), 2 x 2-hour PC Classroom supervised sessions (x 5 weeks), 1-hour tutorial (x 5 weeks)			
	Scheduled learning: 57 hours		Guided independent study: 143 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 71%, Practical Examinations = 25%, Coursework = 4%			
	As used by St Andrews: 2-hour Written Examination = 60% Coursework = 40%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via https://www.st-andrews.ac.uk/physics/staff_students/timetables.php This link also gives access to timetables for the modules.			

PH3101 Physics Laboratory 1

SCOTCAT Credits:	15	SCQF Level 9	Semester	2
Academic year:	2018/9			
Planned timetable:	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC)			
<p>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.</p>				
Pre-requisite(s):	Before taking this module you must pass PH2012 and (pass MT2501 and pass MT2503)			
Learning and teaching methods of 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 teaching staff:	TBC			

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PH4026 Signals and Information				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am odd Mon, Wed, Fri, 2.00 pm even Mon (TBC)			
This module gives an introduction to what are signals and information, and how they are measured and processed. It also covers the importance of coherent techniques such as frequency modulation and demodulation and phase sensitive detection. The first part of the module concentrates on information theory and the basics of measurement, with examples. Coherent signal processing is then discussed, including modulation/demodulation, frequency mixing and digital modulation. Data compression and reduction ideas are illustrated with real examples and multiplexing techniques are introduced. The module concludes with a discussion of basic antenna principles, link gain, and applications to radar.				
Pre-requisite(s):	Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507)			
Learning and teaching methods of 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 teaching staff:	TBC			

PH4027 Optoelectronics and Nonlinear Optics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am Tue, Thu, 3.00 pm Fri (TBC)			
The module provides an introduction to the basic physics underpinning optoelectronics and nonlinear optics, and a perspective on contemporary developments in the two fields. The syllabus includes: an overview of optoelectronic devices and systems; optical modulators; acousto-optics; Bragg and Raman-Nath; propagation of light in anisotropic media; electro-optics; waveguide and fibre optics; modes of planar guides; nonlinear optics; active and passive processes in second and third order; second harmonic generation; phase matching; coupled wave equations; parametric oscillators; self-focusing and self-phase-modulation; optical bistability; phase conjugation; solitons; Rayleigh; Raman and Brillouin scattering.				
Pre-requisite(s):	Before taking this module you must (pass PH3081 or pass PH3082) or (pass MT2506 and pass MT2507) and pass PH3007			
Learning and teaching methods of 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 teaching staff:	TBC			

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PH4028 Advanced Quantum Mechanics: Concepts and Methods				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	12.00 noon even Mon, Tue and Thu, 4 pm odd Fri (TBC)			
<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. 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>				
Pre-requisite(s):	Before taking this module you must pass PH3061 and pass PH3062 and (pass PH3081 or pass PH3082) or (pass MT2003 or pass MT2506 and pass MT2507)			
Learning and teaching methods of 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 teaching staff:	TBC			
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via https://www.st-andrews.ac.uk/physics/staff_students/timetables.php This link also gives access to timetables for the modules.			

PH4031 Fluids				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am even Mon, Tue, Thu, 2.00 pm odd Tue (TBC)			
<p>This module provides an introduction to fluid dynamics, and addresses the underlying physics behind many everyday flows that we see around us. It starts from a derivation of the equations of hydrodynamics and introduces the concept of vorticity and the essentials of vorticity dynamics. The influence of viscosity and the formation of boundary layers is described with some straightforward examples. The effect of the compressibility of a fluid is introduced and applied to shock formation and to the conservation relations that describe flows through shocks. A simple treatment of waves and instabilities then allows a comparison between theory and readily-observed structures in clouds, rivers and shorelines.</p>				
Pre-requisite(s):	Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507)			
Learning and teaching methods of 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 teaching staff:	TBC			

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PH4032 Special Relativity and Fields				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	3.00 pm Tue, 4.00 pm Tue, Fri (TBC)			
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.				
Pre-requisite(s):	Before taking this module you must pass PH3007 and pass PH3081 and pass PH4038			
Learning and teaching methods of 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 teaching staff:	TBC			

PH4034 Laser Physics 1				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	9.00 am Mon, Wed, Fri (TBC)			
This module presents a basic description of the main physical concepts upon which an understanding of laser materials, operations and applications can be based. The syllabus includes: basic concepts of energy-level manifolds in gain media, particularly in respect of population inversion and saturation effects; conditions for oscillator stability in laser resonator configurations and transverse and longitudinal cavity mode descriptions; single longitudinal mode operation for spectral purity and phase locking of longitudinal modes for the generation of periodic sequences of intense ultrashort pulses (i.e. laser modelocking); illustrations of line-narrowed and modelocked lasers and the origin and exploitability of intensity-induced nonlinear optical effects.				
Pre-requisite(s):	Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507)			
Learning and teaching methods of 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 teaching staff:	TBC			

PH4035 Principles of Optics			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	12.00 noon odd Mon, Wed, Fri, 3 pm even Tue (TBC)		
This module formulates the main aspects of physics used in modern optics, lasers and optoelectronic systems. Topics covered include: polarised light and its manipulation, with descriptions in terms of Jones' vectors and matrices; Fresnel's equations for transmittance and reflectance at plane dielectric interfaces; reflection and transmission of multi-layer thin films plus their use in interference filters; interpretation of diffraction patterns in terms of Fourier theory; spatial filters; the theory and use of Fabry-Perot etalons; laser cavities and Gaussian beams.			
Pre-requisite(s):	Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507)		
Learning and teaching methods of 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 teaching staff:	TBC		

PH4036 Physics of Music			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	12.00 noon Mon, Tue, Thu (TBC)		
Musical instruments function according to the laws of physics contained in the wave equation. Wind instruments, the human voice and the acoustics of concert halls can be explained largely by considering waves in the air, but understanding drums, percussion, string instruments and even the ear itself involves studying the coupling of waves in various media. The concepts of pitch, loudness and tone are all readily explained in quantitative terms as are the techniques that musicians and instrument makers use to control them. The analysis of musical instruments naturally culminates in a look at how musical sound may be synthesised.			
Pre-requisite(s):	Admission to an honours programme in the school of physics and astronomy. If not already passed you must take PH3081 or take PH3082		
Co-requisite(s):	If not already passed you must take PH3081 or take PH3082		
Learning and teaching methods of 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 teaching staff:	TBC		

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PH4038 Lagrangian and Hamiltonian Dynamics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	10.00 am even Mon, Tue, Thu, 2.00 pm odd Fri (TBC)			
The module covers the foundations of classical mechanics as well as a number of applications in various areas. Starting from the principle of least action, the Lagrangian and Hamiltonian formulations of mechanics are introduced. The module explains the connection between symmetries and conservation laws and shows bridges between classical and quantum mechanics. Applications include the central force problem (orbits and scattering) and coupled oscillators.				
Pre-requisite(s):	Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507). In taking this module you will need a knowledge of vector calculus			
Anti-requisite(s)	You cannot take this module if you take MT4507			
Learning and teaching methods of delivery:	Weekly contact: 2 or 3 lectures and some tutorials			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			

PH4039 Introduction to Condensed Matter Physics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Wed, Fri, 2.00 pm Fri			
This module explores how the various thermal and electrical properties of solids are related to the nature and arrangement of their constituent atoms. For simplicity, emphasis is given to crystalline solids. The module covers: the quantum-mechanical description of electron motion in crystals; the origin of band gaps and insulating behaviour; the reciprocal lattice and the Brillouin zone, and their relationships to X-ray scattering measurements; the band structures and Fermi surfaces of simple tight-binding models; the Einstein and Debye models of phonons, and their thermodynamic properties; low-temperature transport properties of insulators and metals, including the Drude model; the physics of semiconductors, including doping and gating; the effect of electron-electron interactions, including a qualitative account of Mott insulators; examples of the fundamental theory applied to typical solids.				
Pre-requisite(s):	If not already passed you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507) and (pass PH3061 or pass CH3712)			
Co-requisite(s):	You must also take PH3061 or take PH3082 or take PH3081. If not already passed you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507) and (pass PH3061 or pass CH3712)			
Learning and teaching methods of 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 teaching staff:	TBC			

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PH4040 Nuclear and Particle Physics with Advanced Skills			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available only to students on the Physics and Philosophy, and Physics and Computer Science, Physics and Mathematics, Theoretical Physics and Mathematics programmes.		
Planned timetable:	14.00 Tue, Noon Wed and Fri (all from week 4), 10.00 Wed, occasional 10.00 Fri (TBC)		
<p>The first aim of this module is to describe in terms of appropriate models, the structure and properties of the atomic nucleus, the classification of fundamental particles and the means by which they interact. The syllabus includes: nuclear sizes, binding energy, spin dependence of the strong nuclear force; radioactivity, the semi-empirical mass formula; nuclear stability, the shell model, magic numbers; spin-orbit coupling; energetics of betadecay, alpha-decay and spontaneous fission; nuclear reactions, resonances; fission; electroweak and colour interactions, classification of particles as intermediate bosons, leptons or hadrons. Standard model of leptons and quarks, and ideas that go beyond the standard model. The second aim of this module is to develop research skills, and oral and written communication skills in science. Participants will be given training in the use of bibliographic databases, use of the scientific literature, oral and written communication skills, and will develop these skills through structured assignments.</p>			
Pre-requisite(s):	In taking this module you must have gained entry to bsc honours in philosophy and physics or computer science and physics or mathematics and physics or theoretical physics and mathematics. Before taking this module you must pass PH3061 and pass PH3062		
Anti-requisite(s)	You cannot take this module if you take PH4022 or take PH3014 or take PH4041		
Learning and teaching methods of delivery:	Weekly contact: 3 x lectures (x 7 weeks) plus 6 further lectures, 4 tutorials, 1 workshop and 2 hours of giving and evaluating tasks.		
	Scheduled learning: 34 hours	Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		

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PH4041 Atomic, Nuclear, and Particle Physics			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	2.00 pm Tue, 12.00 noon Wed and Fri (TBC)		
<p>The aim of this module is to describe in terms of appropriate models, the structure and properties of the atom, including its nucleus, the classification of fundamental particles and the means by which they interact. The syllabus includes: electron cloud model of an atom, electron spin and magnetic moment, spin-orbit interactions, revision of single-electron atom and brief qualitative extension to multi-electron atoms, selection rules and line intensities for electric-dipole transitions; nuclear sizes, binding energy, properties of the strong nuclear force; radioactivity, the semi-empirical mass formula; nuclear stability, the shell model, magic numbers; energetics of beta-decay, alpha-decay and spontaneous fission; nuclear reactions, resonances; fission; electroweak and colour interactions, classification of particles as intermediate bosons, leptons or hadrons. Standard model of leptons and quarks.</p>			
Pre-requisite(s):	Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507) and pass PH3061 and pass PH3062		
Anti-requisite(s)	You cannot take this module if you take PH4022 and take PH4037 and take PH4040		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures per week with total of 3 replaced by a tutorial		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 5%, Coursework = 95%		
	As used by St Andrews: 2-hour Written Examination = 95%, Coursework (quizzes) = 5%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		
Additional information from Schools:	Please see also the information in the School's Handbook for Honours modules available via https://www.st-andrews.ac.uk/physics/staff_students/timetables.php This link also gives access to timetables for the modules.		

PH4042 Concepts in Atomic Physics and Magnetic Resonance			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	9.00 am odd Mon, 2.00 pm even Tue, 9.00 am Wed and Fri 9.00 (TBC)		
<p>This module builds on the atomic physics covered in PH4041 to look at the atomic structure of helium and many-electron atoms, magnetic interactions within the atom (leading to fine and hyperfine splitting), the Zeeman effect, and topics in atom-light interaction. These well-established concepts are then used in contemporary topics such as cold atom physics and magnetic resonance, both of which are current research topics within the School.</p>			
Pre-requisite(s):	Before taking this module you must pass PH4041. The pre-requisite may be waived with special permission from the school.		
Anti-requisite(s)	You cannot take this module if you take PH4037		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures per week with total of 3 replaced by a tutorial		
	Scheduled learning: 32 hours	Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		

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PH4043 Studies in Physics and Chemistry				
SCOTCAT Credits:	5	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students in the honours years of the joint Chemistry and Physics degree programme.			
Planned timetable:	To be arranged.			
This module, which is for students on the joint degree programme Chemistry and Physics, provides guidance on literature research and communication skills. Students choose area(s) of interest relevant to the joint degree to explore and to write a review article and a provide a short presentation. The module thus addresses important professional skills, develops subject knowledge, and explicitly brings together the two halves of the degree programme.				
Pre-requisite(s):	Before taking this module you must pass CH3441 and pass PH3082 and pass PH3061. This module is available only to students in the honours years of the joint degree programme in chemistry and physics			
Anti-requisite(s)	You cannot take this module if you take PH3014			
Learning and teaching methods of delivery:	Weekly contact: 1-hour lecture (x 4 weeks), 1-hour tutorial (x 5 weeks)			
	Scheduled learning: 9 hours		Guided independent study: 41 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework (including Presentation (20%))= 100%			
Re-assessment pattern:	No Re-assessment available			
Module teaching staff:	TBC			

PH4044 Advanced Condensed Matter Physics				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students on a programme in the School of Physics & Astronomy.			
Planned timetable:	To be arranged.			
This module builds on concepts taught in Introduction to Condensed Matter Physics (PH4039) to introduce more advanced theoretical concepts and lay the foundations required to understand the challenges in current research in condensed matter physics. Topics covered in this module include advanced techniques for band-structure determination, superconductivity and magnetism as well as the physics of semiconductor electronics. The module will further prepare students for more independent learning. The module will be 100% continuously assessed, including a journal club presentation, problem sheets and computational problems to serve as an introduction to advanced modelling and data analysis in condensed matter physics.				
Pre-requisite(s):	Before taking this module you must take PH3061 and (take PH3080 or take PH3082) and take PH4039			
Learning and teaching methods of delivery:	Weekly contact: 3 lectures or tutorials (x 11 weeks), 1 computing hour			
	Scheduled learning: 41 hours		Guided independent study: 109 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 60%, Coursework = 40%			
	As used by St Andrews: Oral Examination = 30%, Coursework (computing project - 40%, Journal Club presentation 30%) = 70%			
Re-assessment pattern:	Oral Examination = 100% -Re-Assessment grade capped at 7			
Module teaching staff:	TBC			

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PH4045 Data Processing for biomedical imaging and sensing			
SCOTCAT Credits:	15	SCQF Level 10	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	To be arranged		
<p>Medical imaging and sensing technology plays a major role in the way people are diagnosed and treated in hospitals. Exploring these technologies, the underlying physics and the data analysis behind them enhances their current use and allows for insight into their potential future development. This module will cover: the different types of medical imaging (such as MRI, CT, PET, ultrasound and optical imaging), the fundamental principles and physics behind these techniques, their uses and limitations in a clinical setting, and applicable data treatment and signal processing techniques, including how to program these.</p>			
Pre-requisite(s):	Before taking this module you must pass PH3080 or pass PH3082		
Learning and teaching methods of delivery:	Weekly contact: 3.5 hours of lecture/practicals (x11 weeks)		
	Scheduled learning: 55 hours	Guided independent study: 95 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%		
	As used by St Andrews: 2-hour Written Exam = 60%, Coursework = 40%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		

PH4105 Physics Laboratory 2			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC)		
<p>The aims of the module are (i) to familiarise students with a wide variety of experimental techniques and equipment, and (ii) to instil an appreciation of the significance of experiments and their results. The module consists of sub-modules on topics such as solid state physics, optics, interfacing, and signal processing.</p>			
Pre-requisite(s):	Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507)		
Learning and teaching methods of 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 teaching staff:	TBC		

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PH4111 Physics Project (BSc)			
SCOTCAT Credits:	30	SCQF Level 10	Semester Full Year
Academic year:	2018/9		
Availability restrictions:	Normally only in the final year of a Physics BSc programme		
Planned timetable:	Half time in second semester, plus some preparation in first semester.		
<p>The project aims to develop students' skills in searching the physics literature and in experimental design, the evaluation and interpretation of data, and in the presentation of results. There is no specific syllabus for this module. Students taking the BSc degree select a project from a list offered, and are supervised by a member of staff. Project choice and some preparatory work is undertaken in semester one, but normally most of the 30 credits' worth of work is undertaken in semester two. 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>			
Pre-requisite(s):	Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507) and (pass PH3101 or pass PH4105)		
Anti-requisite(s)	You cannot take this module if you take AS4103 or take AS5101 or take PH5101 or take PH5103 or take PH4796		
Learning and teaching methods of delivery:	<p>Weekly contact: Project students work 'half-time' on their project through semester 2. All students must meet weekly with their project supervisor and attend fortnightly meetings with their peer-support group. Most projects are based in research labs in the School, where members of research teams will provide supervision ranging from safety cover to assistance with equipment and discussion of interpretation of results - it is expected that the 20 hours a week will be primarily in this environment.</p>		
	Scheduled learning: 18 hours	Guided independent study: 282 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%</p>		
	<p>As used by St Andrews: Coursework (Review essay, Report and Oral Examination) = 100%</p>		
Re-assessment pattern:	No Re-assessment available - Final year project		
Module teaching staff:	TBC		

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PH5002 Foundations of Quantum Mechanics				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	2.00 pm Mon, Tue, Fri (TBC)			
This module consists of seven parts: (i) classical and quantum systems; (ii) vector spaces, Hilbert spaces, operators and probability; (iii) basic postulates of quantum mechanics for observables with discrete spectra; (iv) illustrative examples; (v) treatment of continuous observables in terms of probability distribution functions and the spectral functions; (vi) quantum theory of orbital and spin angular momenta, Pauli-Schrodinger equation and its applications; (vii) introduction to relativistic quantum mechanics.				
Pre-requisite(s):	Before taking this module you must (pass PH3081 or pass PH3082 or pass MT2506 and pass MT2507) and pass PH3061 and pass PH3062			
Learning and teaching methods of 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 teaching staff:	TBC			

PH5003 Group Theory				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	12.00 noon Wed, Fri, 3.00 pm Mon (TBC)			
This module explores the concept of a group, including groups of coordinate transformations in three-dimensional Euclidean space; the invariance group of the Hamiltonian operator; the structure of groups: subgroups, classes, cosets, factor groups, isomorphisms and homomorphisms, direct product groups; introduction to Lie groups, including notions of connectedness, compactness, and invariant integration; representation theory of groups, including similarity transformations, unitary representations, irreducible representations, characters, direct product representations, and the Wigner-Eckart theorem; applications to quantum mechanics, including calculation of energy eigenvalues and selection rules.				
Pre-requisite(s):	Before taking this module you must (pass PH2011 and pass PH2012) and pass MT2001 or (pass MT2501 and pass MT2503) and pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507) and pass PH3061 and pass PH3062. Pre-requisites are compulsory unless you are on a taught postgraduate programme.			
Learning and teaching methods of 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 teaching staff:	TBC			

Physics & Astronomy - Honours Level - 2018/9 - August - 2018

PH5004 Quantum Field Theory

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	2.00 pm Thu, 3.00 pm Tue, Fri (TBC)			
This module presents an introductory account of the ideas of quantum field theory and of simple applications thereof, including quantization of classical field theories, second quantization of bosons and fermions, the failure of single particle interpretation of relativistic quantum mechanics, solving simple models using second quantization, Feynman's path integral approach to quantum mechanics and its relation to classical action principles, field integrals for bosons and fermions, the relationship between path integral methods and second quantization, and a descriptive introduction to Green's functions and Feynman diagrams.				
Pre-requisite(s):	Pre-requisites, but not the co-requisite, are compulsory unless you are on a taught postgraduate programme. . Before taking this module you must pass PH3012 and pass PH3061 and pass PH3062 and pass 1 module from {PH4038, MT4507} and pass 1 module from {PH4028, MT3503}			
Co-requisite(s):	You should also take PH5002 or take PH5012			
Learning and teaching methods of delivery:	Weekly contact: 3 lectures or tutorials.			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 85%, Coursework = 15%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			

PH5005 Laser Physics 2

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School			
Planned timetable:	10.00 am Mon, Tue, Wed, Thu (TBC)			
Quantitative treatment of laser physics embracing both classical and semiclassical approaches; transient/dynamic behaviour of laser oscillators including relaxation oscillations, amplitude and phase modulation, frequency switching, Q-switching, cavity dumping and mode locking; design analysis of optically-pumped solid state lasers; laser amplifiers including continuous-wave, pulsed and regenerative amplification; dispersion and gain in a laser oscillator - role of the macroscopic polarisation; unstable optical resonators, geometric and diffraction treatments; quantum mechanical description of the gain medium; coherent processes including Rabi oscillations; semiclassical treatment of the laser; tunable lasers.				
Pre-requisite(s):	Pre-requisites are compulsory unless you are on a taught postgraduate programme. . Before taking this module you must pass PH3007 and pass PH3061 and pass PH3062. It is recommended that you take PH4034 with this module.			
Anti-requisite(s)	You cannot take this module if you take PH5180			
Learning and teaching methods of delivery:	Weekly contact: 4 lectures or tutorials.			
	Scheduled learning: 40 hours		Guided independent study: 110 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2.5-hour (open notes) Examination = 100%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			

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PH5011 General Relativity			
SCOTCAT Credits:	15	SCQF Level 11	Semester 1
Academic year:	2018/9		
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School		
Planned timetable:	9.00 am Wed, Fri, 3.00 pm Thu (TBC)		
<p>This module covers: inertial frames, gravity, principle of equivalence, curvature of spacetime; basic techniques of tensor analysis; Riemannian spaces, metric tensor, raising and lowering of indices, Christoffel symbols, locally flat coordinates, covariant derivatives, geodesics, curvature tensor, Ricci tensor, Einstein tensor; fundamental postulates of general relativity: spacetime, geodesics, field equations, laws of physics in curved spacetime; distances, time intervals, speeds; reduction of equations of general relativity to Newtonian gravitational equations; Schwarzschild exterior solution, planetary motion, bending of light rays, time delays; observational tests of general relativity; Schwarzschild interior solution, gravitational collapse, black holes.</p>			
Pre-requisite(s):	Before taking this module you are advised to pass PH4032 and pass PH4038. Before taking this module you must pass PH3081 or pass PH3082 or (pass MT2506 and pass MT2507)		
Learning and teaching methods of 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 teaching staff:	TBC		

PH5012 Quantum Optics			
SCOTCAT Credits:	15	SCQF Level 11	Semester 1
Academic year:	2018/9		
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School		
Planned timetable:	11.00 am Mon, 11.00 am Tue, Thu (TBC)		
<p>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.</p>			
Pre-requisite(s):	Before taking this module you must (pass PH3081 or pass PH3082 or pass MT2506 and pass MT2507) and pass PH3061 and pass PH3062 and pass PH4028		
Learning and teaching methods of 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 teaching staff:	TBC		

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PH5015 Applications of Quantum Physics

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School, or a postgraduate photonics programme.			
Planned timetable:	12.00 noon Mon, Tue, Thu (TBC)			
Quantum physics is one of the most powerful theories in physics yet is at odds with our understanding of reality. In this module we show how laboratories around the world can prepare single atomic particles, ensembles of atoms, light and solid state systems in appropriate quantum states and observe their behaviour. The module includes studies of laser cooling, Bose-Einstein condensation, quantum dots and quantum computing. An emphasis throughout will be on how such quantum systems may actually turn into practical devices in the future. The module will include assessment based on tutorial work and a short presentation on a research topic.				
Pre-requisite(s):	Undergraduate - before taking this module you must (pass PH3081 or pass PH3082 or pass MT2506 and pass MT2507) and pass PH3061 and pass PH3062			
Learning and teaching methods of delivery:	Weekly contact: 3 lectures/tutorials, 1 x 3-hour research lab visit, 3 hours student presentations during the semester.			
	Scheduled learning: 30 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 10%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			

PH5016 Biophotonics

SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Normally only taken in the final year of an MPhys or MSci programme involving the School, or a postgraduate photonics programme.			
Planned timetable:	9.00 am Mon, Wed, Fri (TBC)			
The module will expose students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, optogenetics, lab-on-a-chip concepts and bio-MEMS. Two thirds of the module will be taught as lectures, including guest lectures by specialists, with the remaining third consisting of problem-solving exercises, such as writing a specific news piece on a research paper, assessed tutorial sheets and a presentation. A visit to a biomedical research laboratory using various photonics methods will also be arranged.				
Pre-requisite(s):	Pre-requisites are compulsory unless you are on a taught postgraduate programme. . Before taking this module you must (pass 1 module from {PH3081, PH3082} or pass 2 modules from {MT2506, MT2507}) and pass 1 module from {PH4034, PH4035}			
Learning and teaching methods of delivery:	Weekly contact: 3 lectures/tutorials.			
	Scheduled learning: 31 hours		Guided independent study: 119 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 10%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework (including presentation)= 20%			
Re-assessment pattern:	Oral Re-assessment, capped at grade 7			
Module teaching staff:	TBC			

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PH5023 Monte Carlo Radiation Transport Techniques				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	11.00 am Wed, 2.00 pm Tue, Fri (TBC)			
<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>				
Pre-requisite(s):	Prerequisites are compulsory unless the student is on a postgraduate taught programme. Before taking this module you must pass PH2012 and pass at least 1 module from {AS3013, PH3080, PH3081, PH3082}			
Learning and teaching methods of delivery:	Weekly contact: 3 hours of lectures (x 6 weeks), 1-hour tutorials (x 5 weeks), during semester 3 x 3 hour supervised computer lab sessions			
	Scheduled learning: 32 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 25%, Coursework = 50%			
	As used by St Andrews: Coursework (worksheets = 50%, 3-hour computing test = 25%, 1-hour Class Test = 25%) = 100%			
Re-assessment pattern:	No Re-assessment available - laboratory based			
Module teaching staff:	TBC			

PH5024 Modern Topics in Condensed Matter Physics				
SCOTCAT Credits:	15	SCQF Level 11	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to those in the final year of an MPhys or MSci programme			
Planned timetable:	10.00 am Tue, Wed, Thu (TBC)			
<p>This module links with ongoing research in this area in the School, and includes the rich structural and electronic phases that can be stabilised at surfaces of materials and the physics of strongly correlated electron materials. It also covers some experimental techniques commonly used to characterise these, such as quantum oscillations, angle-resolved photoemission spectroscopy, and scanning tunnelling microscopy and spectroscopy. There is an emphasis on developing skills in critical reading of the scientific literature, presenting relevant works in class discussions, and performing computations. Tutorial sessions will be used to provide constructive feedback on problem sheets. Full-class discussions in a journal club style will aid in developing understanding of complex topics and critical reading of research papers.</p>				
Pre-requisite(s):	Before taking this module you must pass 4 modules from {PH3061, PH3062, PH4039, PH4044} and (pass 1 module from {PH3081, PH3082} or pass 2 modules from {MT2506, MT2507}) and pass 1 module from {PH4037, PH4041} and pass 1 module from {PH3080, PH3082}			
Learning and teaching methods of delivery:	Weekly contact: 3 hours of lectures (x 7 weeks), 1-hour tutorials (x 4 weeks), 3-hour presentations (x 2 weeks)			
	Scheduled learning: 31 hours		Guided independent study: 119 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	No Re-assessment available - assignment based			
Module teaching staff:	TBC			

PH5025 Nanophotonics			
SCOTCAT Credits:	15	SCQF Level 11	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available only to students in the second year of Honours Programme or a taught postgraduate programme.		
Planned timetable:	To be arranged.		
<p>Nanophotonics deals with structured materials on the nanoscale for the manipulation of light. Photonic crystals and plasmonic metamaterials are hot topics in contemporary photonics, and form part of the School's research programme. The properties of these materials can be designed to a significant extent via their structure. Many of the properties of these nanostructured materials can be understood from their dispersion diagram or optical band-structure, which is a core tool that will be explored in the module. Familiar concepts such as optical waveguides and cavities, multilayer mirrors and interference effects will be used to explain more complex features such as slow light propagation and high Q cavities in photonic crystal waveguides and supercontinuum generation in photonic crystal fibres. Propagating and localized plasmons will be explained and will include the novel effects of super-lensing and advanced phase control in metamaterials.</p>			
Pre-requisite(s):	Before taking this module you must take PH3061 and (take PH3081 or take PH3082) and (take PH4027 or take PH4034 or take PH4035)		
Anti-requisite(s)	You cannot take this module if you take PH5183		
Learning and teaching methods of delivery:	Weekly contact: 3 lectures/tutorials (x 10 weeks)		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 80%, Coursework = 20%		
Re-assessment pattern:	Oral Re-assessment, capped at grade 7		
Module teaching staff:	TBC		

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PH5101 Physics Project (MPhys)			
SCOTCAT Credits:	60	SCQF Level 11	Semester
Academic year:	2018/9		
Availability restrictions:	Normally Available only to those in the final year of an MPhys Physics or MSci Chemistry and Physics degree programme		
Planned timetable:	Full time in second semester, following some work in first.		
<p>The project aims to develop students' skills in searching the physics literature and in experimental design, the evaluation and interpretation of data, and in the presentation of results. There is no specific syllabus for this module. Students taking the MPhys degree select a project from a list offered, and are supervised by a member of staff. Project choice and some preparatory work is undertaken in semester one, but normally most of the 60 credits' worth of work is undertaken in semester two. 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>			
Pre-requisite(s):	Before taking this module you must (pass 1 module from {PH3081, PH3082} or pass 2 modules from {MT2506, MT2507}) and pass PH3101 and pass PH4105		
Anti-requisite(s)	You cannot take this module if you take AS4103 or take AS5101 or take PH4111 or take PH5103 or take PH4796		
Learning and teaching methods of 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: 21 hours	Guided independent study: 579 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 teaching staff:	TBC		

PH5103 Project in Theoretical Physics (60)			
SCOTCAT Credits:	60	SCQF Level 11	Semester
Academic year:	2018/9		
Availability restrictions:	Normally available only to those in the final year of a Theoretical Physics or Mathematics and Theoretical Physics degree programme.		
Planned timetable:	Full time 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. 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. Please note: Some projects will need learning from specific modules - please contact potential supervisors.</p>			
Pre-requisite(s):	Before taking this module you must (pass 1 module from {PH3081, PH3082} or pass 2 modules from {MT2506, MT2507}) and pass PH3062 and pass PH3007 and pass PH4022 and pass PH4032. Some projects will need learning from specific modules - please contact potential supervisors.		
Anti-requisite(s)	You cannot take this module if you take PH5102 or take PH5101 or take PH4111 or take AS4103 or take AS5101 or take PH4796		
Learning and teaching methods of 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 theoretical physics research seminars.</p>		
	Scheduled learning: 36 hours	Guided independent study: 564 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 teaching staff:	TBC		

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PH5104 Project in Theoretical Physics (Mathematics and Theoretical Physics Students)				
SCOTCAT Credits:	65	SCQF Level 11	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students on the MPhys Mathematics and Theoretical Physics programme.			
Planned timetable:	Not applicable.			
<p>This project in theoretical physics research aims to develop joint-degree students' skills in searching the physics literature, in the design and implementation of investigations in theoretical/computational physics, in the evaluation and interpretation of data/calculations, and in the presentation of results. The project work is preceded by a substantial review on a topic which is normally related to the theme of the project. Students select a project from a list offered, and are supervised by a member of staff. Input from the School of Maths and Statistics is welcomed, but not required. Project choice, prep work, and some writing of the review is undertaken in sem 1, but most of the 65 credits' worth of work is done in sem 2. Students should provide the intellectual drive for the project work, taking on a role similar to that of a research student in the School. Note: Some projects will need learning from specific modules - please contact potential supervisors.</p>				
Pre-requisite(s):	Before taking this module you must (take 1 module from {PH3081, PH3082} or take 2 modules from {MT2506, MT2507}) and take PH3062 and take PH3007 and (take PH4022 or take PH4040 or take PH4041) and take PH4032			
Anti-requisite(s)	You cannot take this module if you take PH5103 or take PH5102 or take PH5101 or take PH4111 or take AS4103 or take AS5101 or take MT5999			
Learning and teaching methods of delivery:	Weekly contact: supervisor meeting, research seminar, biweekly peer group meeting			
	Scheduled learning: 36 hours		Guided independent study: 614 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 28%, Coursework = 72%			
	As used by St Andrews: Project = 100% (including Oral Examination)			
Re-assessment pattern:	No Re-assessment available			
Module teaching staff:	TBC			

School of Psychology & Neuroscience

Neuroscience (PN) modules

PN3312 Neuropharmacology			
SCOTCAT Credits:	20	SCQF Level 9	Semester 2
Academic year:	2018/9		
Planned timetable:	Lectures: 11.00 am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module assumes that students are familiar with the material covered in BL2101. The basic principles of pharmacology will be covered, including evidence to support the modern concept that drugs act via specific receptors present on target tissues and our present understanding of laws governing drug-receptor interactions. The concept of agonists, competitive and non-competitive antagonists and the interactions between such classes of drugs will be discussed. The effects of drugs upon the peripheral and central nervous systems and the cardiovascular system will be covered. How these drugs can be used to understand the function of these systems and to correct their malfunctioning in various disease states will be explained. The practical component will cover the principles of drug action and receptor theory and illustrate the use of bioassays in pharmacological investigations. These practical sessions aim to help students build a working knowledge of drug names and actions as well as pharmacological concepts.</p>			
Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {BL2301, BL2302, BL2305, BL2306}		
Anti-requisite(s)	You cannot take this module if you take BL3312		
Learning and teaching methods of delivery:	Weekly contact: Lectures and tutorials: 27 hours in total, Usually 3 lectures or tutorials (x 11 weeks) Practicals: 2 x 3 hours during the semester.		
	Scheduled learning: 33 hours	Guided independent study: 167 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module teaching staff:	Dr A Butler, Dr G Doherty, Dr W Li, Dr G B Miles, Dr R Ramsay, Dr K Spencer, Dr L Aitken		

PN3313 Neuroscience			
SCOTCAT Credits:	20	SCQF Level 9	Semester 1
Academic year:	2018/9		
Planned timetable:	Lectures: 12.00 am Mon, Tue and Wed Practicals: to be arranged.		
<p>This module covers biochemical, cellular and behavioural aspects of the nervous system in health and disease. It starts with the basic biochemistry of neural membrane proteins such as receptors and channels, and considers the cellular mechanisms of action potential generation and propagation, and synaptic transmission. The physiology of sensory perception is illustrated by examining the visual system, while motor control is considered in terms of vertebrate locomotion. Selected aspects of learning and memory processes are also examined. Students are given extensive hands-on experience of computer simulation as a learning tool in this course. The associated practical work illustrates the lecture course through experiments on the nerve impulse, and mechanisms of neuronal cell loss.</p>			
Pre-requisite(s):	Before taking this module you must pass BL2301 and pass BL2305		
Anti-requisite(s)	You cannot take this module if you take BL3313		
Learning and teaching methods of delivery:	Weekly contact: 29 hours of lectures or tutorials in total, 3 x 3-hour practicals and 4 hours of labs during the semester.		
	Scheduled learning: 42 hours	Guided independent study: 158 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Prof G B Miles		
Module teaching staff:	Prof F Gunn-Moore, Prof K Sillar, Dr S Pulver, Dr G Miles, Dr W Heitler, Dr W Li, Dr G Doherty		

Psychology & Neuroscience - Honours Level - 2018/9 - August - 2018

PN3321 Advanced Critical Analysis Reading Party				
SCOTCAT Credits:	10	SCQF Level 9	Semester	Summer Holiday before start of session
Academic year:	2018/9			
Planned timetable:	To be arranged			
An introductory residential module to Honours study for students studying Neuroscience, Psychology and Biology degrees held at the Burn (or equivalent location) 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 analyse and assess 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.				
Learning and teaching methods of delivery:	Weekly contact: 5 day residential course, 8 hours per day			
	Scheduled learning: 16 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:	Coursework = 100%			
Module coordinator:	Prof G B Miles			
Module teaching staff:	Dr G Miles, Dr S Pulver , Dr E Robbins, Dr G Doherty, Dr W Li, Dr M Zwart, Prof K Sillar			

PN4230 Neurodegeneration and Aging				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	Seminars: 3.00 pm - 4.00 Mon, 1.00 pm - 2.00 pm Thu (weeks 1-5); Seminars: 12.00 pm - 2.00 pm Thu (weeks 7 and 9-11); Labs: 2.00 pm - 5.00 pm Tues, Wed (week 8)			
In this module, students will develop a detailed understanding of molecular neuroscience. Work will focus at the biochemical and molecular level, so that detailed knowledge of signalling pathways will be gained. The module concentrates on three key areas relating to neurodegenerative processes. 1) How neurons stay alive 2) The aging nervous system: Changes that can 'prime' neurons for degeneration, degenerative disorders - risks, pathology, treatments. Including a practical session 3) How the nervous system responds to neurodegenerative diseases, with particular focus on Alzheimer's disease.				
Pre-requisite(s):	Before taking this module you must pass PN3313 and pass BL3303			
Anti-requisite(s)	You cannot take this module if you take BL4230			
Learning and teaching methods of 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 teaching staff:	Prof F Gunn-Moore, Dr G Doherty, Dr M Andrews			

Psychology & Neuroscience - Honours Level - 2018/9 - August - 2018

PN4231 Neuromodulation				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass PN3313			
Anti-requisite(s)	You cannot take this module if you take BL4231			
Learning and teaching methods of 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: 1.5-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	1.5-hour Written Examination = 100%			
Module coordinator:	Dr S Pulver			
Module teaching staff:	Dr S Pulver, Prof K Sillar, Dr G Miles, Dr W Li, Dr W Heitler			

PN4234 Synaptic Transmission				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
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.			
<p>Extensive and versatile communication between nerve cells using special junctions called synapses endows the nervous system with many complex functions like learning and memory. This module will cover important recent progress in understanding the morphology and ultrastructure of synapses, neurotransmitter corelease and recycling mechanisms, retrograde signalling, synaptic plasticity, the role of glial cells and the development of neurotransmission. Some laboratory work will provide students with hands-on experience of advanced research methods.</p>				
Pre-requisite(s):	Before taking this module you must pass PN3313			
Anti-requisite(s)	You cannot take this module if you take BL4234			
Learning and teaching methods of delivery:	Weekly contact: A total of 6 x 1.5 hour seminars, 7 x 1 hour lectures and 2 x 3 hour practicals over 10 weeks			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr W Li			
Module teaching staff:	Dr W Li, Dr S Pulver, Dr G Miles			

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PN4235 Motoneurons: From Physiology to Pathology				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	Lectures : 2.00 pm - 3.00 pm Mon and 9.00 am - 10.30 am Fri. Practicals to be arranged.			
This module aims to provide in depth knowledge of key aspects of neuronal function and potential dysfunction by focussing on one of the most studied and best characterised classes of neurons in the central nervous system, motoneurons. The module will cover topics such as: the history of motoneurons in neuroscience research; the genetics controlling motoneuron development, the intrinsic electrical properties of motoneurons; synaptic inputs received by motoneurons; motoneuron recruitment; and motoneuron disease.				
Pre-requisite(s):	Before taking this module you must pass PN3313			
Anti-requisite(s)	You cannot take this module if you take BL4235			
Learning and teaching methods of delivery:	Weekly contact: 10 hours of seminars, 6 hours of lectures and 6 hours of practical over the semester.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Prof G B Miles			
Module teaching staff:	Dr W Li, Prof K Sillar, Dr G Miles, Dr W Heitler			

PN4299 Neuroscience Research Project				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged with the supervisor.			
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.				
Pre-requisite(s):	Before taking this module you must pass PN3312 and pass PN3313			
Anti-requisite(s)	You cannot take this module if you take BL4200 or take BL4201 or take PS4050 or take PS4299 or take PS4796 or take PS4797			
Learning and teaching methods of 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 teaching staff:	Individual Supervisors across the School of Psychology and Neuroscience or the School of Biology			

Psychology (PS) modules

PS3021 Research Design and Analysis 1			
SCOTCAT Credits:	15	SCQF Level 9	Semester 1
Academic year:	2018/9		
Availability restrictions:	Not available to General Degree Students.		
Planned timetable:	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: one of Mon 1-2, 2-3, 3-4, 4-5		
This module is designed to provide a basic understanding of research design and statistics that will provide the foundations for independent empirical research and critical analysis required in the final year of the Honours programme. Emphasis will be placed on the acquisition of design and analysis skills and an understanding of the underlying philosophy that guides research. The syllabus will include core aspects such as ethical issues in research, basic statistics, technical writing and the use of statistical packages.			
Pre-requisite(s):	Before taking this module you must pass PS2002		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory/tutorial class or seminar.		
	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%		
	As used by St Andrews: 1-hour Written Examination = 25%, Coursework = 75%		
Re-assessment pattern:	1-hour Written Examination = 25%, Coursework = 75%, Re-assessment applies to failed components only		
Module coordinator:	Dr M W Oram		

PS3022 Research Design and Analysis 2			
SCOTCAT Credits:	15	SCQF Level 9	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not available to General Degree Students.		
Planned timetable:	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: two of Mon 1-2, 2-3, 3-4, 4-5		
This module is designed to provide a more advanced understanding of research design and statistics. Emphasis will be placed on the acquisition of analytical skills covering typical research situations encountered in the behavioural sciences. There is also an emphasis on integration of concepts across a family of techniques based on correlation and regression. The syllabus will include such topics as multiple regression, path analysis, mediation analysis, factor analysis, ANOVA designs using regression, and moderated multiple regression. There is a focus on computerized data analysis, interpretation, and presentation. A section on qualitative analysis is included to highlight a broader range of research approaches and questions.			
Pre-requisite(s):	If not already passed you must take PS3021		
Co-requisite(s):	If not already passed you must take PS3021		
Learning and teaching methods of delivery:	Weekly contact: 1 X 2-hour lecture (weeks 1-11) and 2 X 1 hour laboratory/tutorial (weeks 1-10)		
	Scheduled learning: 42 hours	Guided independent study: 108 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%		
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%		
Re-assessment pattern:	2-hour Written Examination = 40%, Coursework = 60%, Re-assessment applies to failed components only		
Module coordinator:	Dr K I Mavor		
Module teaching staff:	Dr K Mavor, Dr S Pehrson, P Gardner		

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PS3031 Conceptual Issues and Theoretical Perspectives				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 1-5 only)			
This module addresses the historical and philosophical background to current debates in psychology. The module will be taught via lectures and seminars including student presentations. Emphasis will be placed on the development of critical analysis of alternative models and levels of explanations of behaviour, and the ability to relate conceptual debates in psychology to issues in the real world.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5).			
	Scheduled learning: 15 hours		Guided independent study: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Mr P L Gardner			

PS3032 Assessment in Clinical Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 6-10 only).			
This module presents psychopathological conditions and provides a basic understanding of the underlying neuronal and/or cognitive-behavioural mechanisms. Examples will be drawn from the field of clinical psychology and/or clinical neuropsychology. The module will further explore in detail the tools and procedures used to assess psychopathological conditions by discussing their theoretical/statistical background and by demonstrating how to use these tools in clinical and experimental settings.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 6 - 10).			
	Scheduled learning: 15 hours		Guided independent study: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 1.5-hour Written Examination = 100%			
Re-assessment pattern:	1.5-hour Written Examination = 100%			
Module coordinator:	Dr D Balslev			

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PS3033 Developmental Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1.5-hour practical: Thu, either 2-3:30 or 3:30-5. (Module runs in weeks 1 - 5 only)			
This module is designed to equip students with an appreciation of key principles, concepts, methods and discoveries in developmental psychology, with an emphasis on evolutionary and comparative perspectives that are a particular strength of such work in St Andrews. The module aims to offer a broad perspective spanning infancy to childhood, and a range of key topics in cognitive and social development.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Anti-requisite(s)	You cannot take this module if you take PS3010 or take PS3011			
Learning and teaching methods of 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 teaching staff:	Dr E Robbins			

PS3034 Social Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only)			
This module explores in depth key topics across the breadth of social psychological enquiry. A variety of research approaches will be examined in order to develop the scientific understanding and critical skills in this field. Approaches that will be covered include social cognition, social identity and the study of intergroup relations. In each case, the strengths and limitations of the approaches are explored, and theoretical knowledge will be linked to current events.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5)			
	Scheduled learning: 15 hours		Guided independent study: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr N Tausch			

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PS3035 Cognitive and Behavioural Neuroscience				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only).			
This module aims to provide an understanding of psychological knowledge in several inter-related domains concerned with the biological bases of behaviour. Emphasis will be laid on basic experimental science from analysis of molecular and synaptic events, single cell studies, brain activity scans, and clinical studies, and the relationship between cognitive, emotional, behavioural, neurological and physiological processes will be examined.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5)			
	Scheduled learning: 15 hours		Guided independent study: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 1.5-hour Written Examination = 100%			
Re-assessment pattern:	1.5-hour Written Examination = 100%			
Module coordinator:	Dr I Jentzsch			

PS3036 Evolutionary and Comparative Psychology				
SCOTCAT Credits:	10	SCQF Level 9	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 6 - 10 only).			
This module will address evolutionary and comparative approaches to psychology. The aim is to provide an understanding of major evolutionary forces and how they have shaped animal and human behaviour and psychology. Key principles, concepts and methodologies will be introduced and related to specific topic areas such as the evolution of social behaviour and the evolutionary origins of language and cognition.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1.5-hour laboratory class or seminar (Weeks 6 - 10).			
	Scheduled learning: 18 hours		Guided independent study: 82 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: Take-home format Written Examination (in 2 hour slot)= 100%			
Re-assessment pattern:	Take-home format Written Examination = 100%			
Module coordinator:	Dr C L Hobaiter			
Module teaching staff:	Dr C Hobaiter			

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PS3037 Perception				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. Four 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 7 - 11 only).			
The aim of this module is to develop an understanding of visual perception and its functions. Stress will be laid on the integration of findings from physiology, neuropsychology, anatomy, and experimental psychology. Topic areas covered will include theories of human vision and their application to understanding our ability to perceive distinct visual properties, for example the shape, size, location and identity of objects. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and (weeks 7 - 11) and 4 x 1.5-hour laboratory class or seminar spread over Weeks 7 - 11.			
	Scheduled learning: 16 hours		Guided independent study: 84 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 1.5-hour Written Examination = 100%			
Re-assessment pattern:	1.5-hour Written Examination = 100%			
Module coordinator:	Prof J Harris			

PS3038 Cognition				
SCOTCAT Credits:	10	SCQF Level 9	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 7 - 11 only).			
The aim of this module is to develop an understanding of human cognitive processes. Topic areas covered include, for example, attention, memory, reasoning, and decision making. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory. Lectures will be accompanied by practical classes, in which students will gain experience of the experimental methods used in cognitive research, and seminars in which research papers will be critically evaluated.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 7 - 11).			
	Scheduled learning: 15 hours		Guided independent study: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr T Otto			

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PS4040 Psychology Review				
SCOTCAT Credits:	10	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in a Psychology Honours Programme.			
Planned timetable:	Not applicable.			
This module will foster the abilities needed to search, collate and integrate an extensive area of psychological literature. Emphasis will be placed on analytical and methodological issues, and this module therefore complements PS3021 and PS3022. A systematic approach to the analysis of a specific body of literature will be encouraged. Students are invited to identify preferred subject matters so long as they fall within the area of the supervisor's expertise. Supervision will be given to aid students in the collation, planning and organisational phases of their work. The review will be limited to 4,000 words.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Co-requisite(s):	In the same year as taking this module you should take PS3021 and take PS3022			
Learning and teaching methods of delivery:	Weekly contact: Individual supervision by pre-assigned member of staff.			
	Scheduled learning: 10 hours		Guided independent study: 90 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Review = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr R H Sprengelmeyer			
Module teaching staff:	Dr R Sprengelmeyer			

PS4050 Psychology Project (30)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme			
Planned timetable:	Not applicable.			
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and statistical analysis. A wide choice of topics is possible, but the skills developed in modules PS3021, PS3022 and PS4040 are an essential preparation. The empirical part of the project may be conducted with another student, to allow greater research scope and the choice of more realistic problems, but all analysis and report-writing must be carried out individually. Topics range over all areas of psychology under active investigation in the School, and effort is made to arrange for students to work in one of their preferred areas.				
Pre-requisite(s):	Before taking this module you must pass PS4040 and pass PS3021 and pass PS3022			
Anti-requisite(s)	You cannot take this module if you take PN4299 or take BL4200 or take PS4299 or take PS4796 or take PS4797			
Learning and teaching methods of delivery:	Weekly contact: Individual supervision by pre-assigned member of staff			
	Scheduled learning: 30 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Re-assessment pattern:	Dissertation = 100% Re-assessment may include collecting further data			
Module coordinator:	Dr R H Sprengelmeyer			
Module teaching staff:	Dr R Sprengelmeyer			

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PS4060 Review Essay

SCOTCAT Credits:	15	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>In this module students will select a key psychological research paper to review (subject to approval by module controller). Students will then submit an outline for formative feedback. The review will be composed independently thereafter. The review should include historical antecedents, including theoretical and methodological issues related to the area and specific problem of issue that the paper addresses. The review should also include an evidence-based evaluation of the impact of the key paper on psychological science and on society. The module includes 6 one-hour sessions on practical skills required to complete the review.</p>				
Pre-requisite(s):	Before taking this module you must pass PS2002. Module prerequisites may be waived for students with entry into honours psychology			
Anti-requisite(s)	You cannot take this module if you take BL4200 or take PN4299 or take PS4299			
Learning and teaching methods of delivery:	Weekly contact: 3 x 2-hour workshops in Semester 1			
	Scheduled learning: 6 hours		Guided independent study: 144 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E M Bowman			
Module teaching staff:	TBC			

PS4069 Group Behaviour

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
<p>This module aims to develop an advanced understanding of selected topics relating to the psychology of groups and collective behaviour. It will address how behaviour is affected by the group context and examine the psychological mechanisms which shape how people act as group members. Teaching will be seminar based and students will be expected to read independently and contribute actively to sessions. Emphasis will be placed on the development of critical skills and the ability to relate individual studies and theories to broader conceptual debates in social psychology. More detailed module content will be announced in advance of student choices.</p>				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar plus tutorial time.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Prof S D Reicher			
Module teaching staff:	Prof S Reicher			

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PS4071 Behavioural Neuroscience				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	UG - 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>				
Pre-requisite(s):	Module prerequisites may be waived for students with entry into honours psychology. Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr E M Bowman			

PS4074 Cognitive Psychology and the Emotional Disorders				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.00 am - 11.00 am Mon			
<p>This module is designed to demonstrate how theories from cognitive psychology can enhance our understanding of the emotional disorders. Teaching will be based on individual seminar presentations followed by class discussion. In the presentations students will be expected to review and critically evaluate original research. Seminars will focus on topics such as autobiographical memory and depression, autobiographical memory and anxiety, attentional bias in depression and anxiety, and interpretative biases in depression and anxiety. At the end of the seminar series, students should understand how depression and anxiety can be differentiated on the basis of these biases.</p>				
Pre-requisite(s):	Module prerequisites may be waived for students with entry into honours psychology. Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr B Dritschel			

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PS4079 Sex Differences and Gender Development				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme			
Planned timetable:	11.00 am - 1.00 pm Fri			
<p>This advanced-level module will examine the evidence for sex differences in human behaviour and explore how gender develops across the lifespan. Students will learn how hormones, such as testosterone and estrogen, influence brain function and behaviour in non-human animals and will apply this knowledge to human data. Example topics include sexual behaviour (including sexual orientation), aggression, memory, sex differences in mental health, and the evolution of sex differences. Teaching will be based on student-led seminars with supporting lectures. Emphasis will be placed on critical evaluation and the ability to relate scientific data to broader debates regarding sex differences in behaviour.</p>				
Pre-requisite(s):	Before taking this module you must pass PS2002. Module prerequisites may be waived for students with entry into honours psychology			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminar plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr G R Brown			
Module teaching staff:	Dr G Brown			

PS4083 Psychology of Music				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr I Jentsch			

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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:	2018/9			
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>				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr D Vishwanath			

PS4085 Evolution and Development of Social and Technical Intelligence				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
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>				
Pre-requisite(s):	Module prerequisites may be waived for students with entry into honours psychology. Before taking this module you must pass PS2001 and pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Take Home Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	Take Home Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr C P Cross			
Module teaching staff:	Dr C Cross			

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PS4086 Origins and Evolution of Mind Reading (Theory of Mind)

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to undergraduate students in the second year of the Honours Programme. Also available to postgraduate students on MSc in Evolutionary and Comparative Psychology: the Origins of Mind			
Planned timetable:	9.00 am - 11.00 am Fri			
	The module will offer a comparative approach to the emergence of the ability to understand mental states in children and non-human primates, and its alteration in autism. This ability (also known as Theory of Mind) is at the heart of many of humans unique cognitive achievements, but their origins can be traced back in evolution and development. The course will discuss the current state of research in this area, emphasising both empirical and conceptual aspects posed by the combination of the evolutionary and developmental approaches.			
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr J Gomez			
Module teaching staff:	Dr J-C Gomez			

PS4089 Neural Basis of Episodic Memory

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
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.			
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: Written Take Home Examination = 75%, Coursework = 25%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr J A Ainge			

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PS4090 Face Perception and Human Attraction				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	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.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 0.5-hour lectures, 1.5-hour seminars and 1-hour office hour throughout the semester.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Prof D I Perrett			
Module teaching staff:	Prof D Perrett			

PS4091 Computer-aided Research				
SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours Programme, or Research Methods in Psychology (MSc)			
Planned timetable:	9.00 am - 11.00 am Tue			
As research becomes ever more computationally intense, the ability to use modern research software is becoming indispensable. This practical module will offer an introduction to computational modelling and provide you with the skills necessary to apply it in your research. Emphasis will be put on using scientific scripting languages in a research context. This module will build on the statistical techniques learned in previous modules and introduce modelling techniques, and imaging, stimulus presentation, and data visualisation.				
Pre-requisite(s):	Module prerequisites may be waived for students with entry into honours psychology. Prerequisites PS3021 and PS3022 are applicable to ug students only. . Before taking this module you must pass PS3022			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture and 1 seminar plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr T Otto			

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PS4093 The Psychology of Dementia

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
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.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture, 1 seminar plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 60%, 90-minute Written Examination = 40%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr M P Ellis			
Module teaching staff:	Dr M Ellis			

PS4094 Communicating Psychology and Neuroscience

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	11.00 am - 1.00 pm Mon			
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.				
Pre-requisite(s):	Before taking this module you must pass PS3021 or pass PN3313			
Anti-requisite(s)	You cannot take this module if you take ID4001 or take ID4002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour lecture, plus office hour and occasional fieldwork.			
	Scheduled learning: 26 hours		Guided independent study: 124 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr K A Spencer			
Module teaching staff:	Dr K Spencer, Mr P L Gardner			

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PS4095 Psychopathology				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
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).				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour lecture plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr R H Sprengelmeyer			
Module teaching staff:	Dr R Sprengelmeyer			

PS4096 Mechanisms of Behaviour: integrating psychological and neuroscience perspectives				
SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	12.00 noon - 2.00 pm Tue			
The aim of this module is to explore some of the many physiological and neural systems that modulate patterns of behaviour in a range of species, including humans. It will highlight the importance of integrating information from psychology and neuroscience disciplines in order to further our understanding of how and why animals and humans behave the way they do in different situations. The module will deal with examples of mechanisms across different levels of complexity (from genes to physiology). The module will include lectures and student presentations/journal club discussions based around current research articles in the field and a practical session with hands on experience of a physiological technique.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2-hour lecture (x 10 weeks), 1 practical class (x 4 weeks) plus office hour.			
	Scheduled learning: 24 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85%			
	As used by St Andrews: Coursework (including presentation) = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr K A Spencer			
Module teaching staff:	Dr K Spencer			

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PS4097 Research Methods in Cognitive Neuroscience

SCOTCAT Credits:	15	SCQF Level 10	Semester	2
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	9.00 am - 11.00 am Tue			
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. 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.				
Pre-requisite(s):	Before taking this module you must pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 1 lecture, 1 seminar plus office hour.			
	Scheduled learning: 22 hours		Guided independent study: 128 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr D Balslev			
Module teaching staff:	Dr D Balslev, Dr T Otto, Dr J Ales, Dr G Miles			

PS4100 The Psychology of Terrorism

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	9.00 am - 11.00 am Fri			
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.				
Pre-requisite(s):	Before taking this module you must pass PS2001 and pass PS2002			
Learning and teaching methods of delivery:	Weekly contact: 2 hour lecture plus office hour.			
	Scheduled learning: 20 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 50%, Coursework = 50%, Re-assessment applies to failed components only			
Module coordinator:	Dr N Tausch			

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PS4299 Psychology Project (60)				
SCOTCAT Credits:	60	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	To be arranged with the supervisor.			
This project will involve extensive laboratory or field research to investigate a defined problem broadly within psychology. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Psychology and Neuroscience who will guide and advise them in research activities throughout the academic year.				
Pre-requisite(s):	Before taking this module you must pass PS3021 and pass PS3022 and pass PS4040			
Anti-requisite(s)	You cannot take this module if you take PS4050 or take PS4060 or take PN4299 or take BL4200 or take PS4796 or take PS4797			
Learning and teaching methods of delivery:	Weekly contact: 1-hour individual supervision sessions.			
	Scheduled learning: 20 hours		Guided independent study: 563 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%, Re-assessment may include collecting further data			
Module coordinator:	Dr R H Sprengelmeyer			
Module teaching staff:	various			

PS4796 Joint Project (30cr)				
SCOTCAT Credits:	30	SCQF Level 10	Semester	Both
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.			
Planned timetable:	To be arranged.			
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.				
Pre-requisite(s):	The student requires a letter of agreement			
Anti-requisite(s)	Cannot take more than 30 credits in other dissertation/project modules			
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: As per Letter of Agreement.			
Re-assessment pattern:	As per Letter of Agreement.			

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PS4797 Joint Project (60cr)			
SCOTCAT Credits:	60	SCQF Level 10	Semester Full Year
Academic year:	2018/9		
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.		
Planned timetable:	To be arranged.		
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and analysis. The topic and area of research should be chosen in consultation with the supervisors in order to determine that the student has access to sources as well as a clear plan of preparation.			
Pre-requisite(s):	The student requires a letter of agreement		
Anti-requisite(s)	Cannot take any other dissertation/project module		
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.		
	Scheduled learning: 0 hours	Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: As per Letter of Agreement.		
Re-assessment pattern:	As per Letter of Agreement.		

Interdisciplinary (ID) modules

ID4001 Communication and Teaching in Science			
SCOTCAT Credits:	15	SCQF Level 10	Semester 1
Academic year:	2018/9		
Availability restrictions:	Available only to Senior Honours students (Integrated Masters students may take in Senior Honours or their final year) who have been accepted following application and interview in the preceding semester.		
Planned timetable:	Flexible		
<p>This module is based on the Undergraduate Ambassador Scheme launched in 2002. It provides final year students within the Faculty of Science with the opportunity to gain first hand experience of science education through a mentoring scheme with science teachers in local schools. Students will act initially as observers in the classroom and later as classroom assistants. With permission of the teacher-in-charge, students may also be given the opportunity to lead at least one lesson, or activity within a lesson, during their placement. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and of communicating scientific ideas at various different levels; and to gain a broad understanding of many of the key aspects of teaching science in schools. While of particular value to students aiming for a career in education, these core skills are equally important for any career that requires good communication. Entry to this module is by selection following application and interview during the preceding semester.</p>			
Pre-requisite(s):	Available only to final year students who have been accepted following application and interview in the preceding semester		
Learning and teaching methods of delivery:	Weekly contact: Occasional tutorials and a half-day training session. 25 hours contact time in the placement school over the semester.		
	Scheduled learning: 39 hours	Guided independent study: 101 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%		
	As used by St Andrews: Coursework = 100% comprising: Written report on the placement (35%) Teacher's assessment of student's placement (25%) Oral presentation (30%) Project proposal (10%)		
Re-assessment pattern:	No Re-assessment available		
Module coordinator:	Dr B D Sinclair		
Module teaching staff:	Dr A Naughton, Dr C Rose, Dr B Chalmers, Dr T Gloster, Dr R Letham, Dr M Campbell, Dr B Sinclair, and visiting speakers (TBC)		
Additional information from Schools:	Please see additional information about this module that is available at https://www.st-andrews.ac.uk/students/academic/interdisciplinary-modules/communication-teaching-science/		

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ID4002 Communication and Teaching in Arts and Humanities

SCOTCAT Credits:	15	SCQF Level 10	Semester	1
Academic year:	2018/9			
Availability restrictions:	Available only to students in the Schools of Classics, Divinity, English, Geography & Geosciences, History, International Relations, Modern Languages or Departments of Philosophy.			
Planned timetable:	To be arranged.			
This module provides final year students within the Faculties of Arts and Divinity with the opportunity to gain first hand experience of education through a mentoring scheme with teachers in local schools. This module will enable students to gain substantial experience of working in a challenging and unpredictable working environment, and to gain a broad understanding of many of the key aspects of teaching in schools.				
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 of 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 teaching staff:	To be confirmed			

ID4442 Combined Research Project in Biology and Geology

SCOTCAT Credits:	45	SCQF Level 10	Semester	Full Year
Academic year:	2018/9			
Availability restrictions:	Not automatically available to General Degree students			
Planned timetable:	To be arranged.			
This module provides an individual research project on a topic spanning the biological and geological sciences which allows the student to pursue in depth a topic of personal interest. The student works largely independently of supervision and has the opportunity to demonstrate individuality, initiative and enterprise. The project will be supported by advisors in both Biology and Geology. Skills of planning and executing research are learnt, as well as the ability to work independently, and present the results orally and in dissertation form (up to 10,000 words). (Guidelines for printing and binding dissertations can be found at: http://www.st-andrews.ac.uk/printanddesign/dissertation/)				
Pre-requisite(s):	Admission to bsc honours programme in biology and geology			
Learning and teaching methods of delivery:	Weekly contact: Individual supervision by member(s) of teaching staff			
	Scheduled learning: 20 hours		Guided independent study: 430 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 10%, Coursework = 90%			
	As used by St Andrews: Research proposal = 5%, Oral Presentation = 10%, Dissertation = 85%			
Re-assessment pattern:	No Re-assessment available			
Module coordinator:	Dr T D Raub			
Module teaching staff:	Dr T Raub			

ID5059 Knowledge Discovery and Datamining			
SCOTCAT Credits:	15	SCQF Level 11	Semester 2
Academic year:	2018/9		
Availability restrictions:	Not automatically available to General Degree students		
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri		
<p>Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of Datamining, building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in programming (typically R, SAS or python).</p>			
Learning and teaching methods of delivery:	Weekly contact: Lectures, seminars, tutorials and practical classes.		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%		
Module coordinator:	Dr T W Kelsey		
Module teaching staff:	Dr T Kelsey, Dr R Hoffmann		

Music Centre

Music (MU) modules

MU3001 Concert Performance			
SCOTCAT Credits:	30	SCQF Level 9	Semester
Academic year:	2018/9		
Planned timetable:	To be arranged.		
<p>This module caters for students aiming to perform to a professional level or students wishing to go on to study performance at postgraduate level. Teaching will include instrumental/vocal lessons at the University Music Centre (comprising thirty minutes' tuition every week), masterclasses with professional musicians and weekly performance classes. Alongside the primary focus of performance, students will also receive teaching in careers and enterprise skills to assist their entry into the music profession. The marking standards for this module are similar to a performance diploma such as LRSM (Licentiate of the Associated Board of the Royal Schools of Music). The module may be especially attractive to a student preparing for such a diploma.</p>			
Pre-requisite(s):	Students lacking the pre-requisite can audition for entrance to the module. . Before taking this module you must pass MU2001		
Learning and teaching methods of delivery:	Weekly contact: 2-hour seminars and 30 minute 1:1 tutorials, and 10 hours of additional teaching spread throughout the semester.		
	Scheduled learning: 37 hours	Guided independent study: 263 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 75%, Coursework = 25%		
	As used by St Andrews: Practical Examination (Recital = 60%, Short Study= 5%, Performance classes = 10%) 75%, Coursework = 25%		
Re-assessment pattern:	5000-word Essay = 40%, Practical Examination (40-minute recital) = 60%		
Module coordinator:	Mr B Williams		

Module Code	Module Title	Credits	Semester	Planned Timetable
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Ancient Archaeology

AA3020	Principles and Techniques in Archaeology	30	1	To be arranged
AA4002	From Pompeii to Aquileia: the Archaeology of Roman Italy (50 BCE - 300 CE)	30	2	TBC
AA4121	The Ancient City of Rome	30	1	TBC
AA4130	The Roman Army	30	2	TBC

Ancient History

AN3034	Approaches to Ancient History	30	1	TBC
AN4141	Greek Tyranny	30	2	To be arranged
AN4155	Religious Communities in the Late Antique World	30	1	TBC

Arabic

AR3401	Media Arabic 1	15	1	Wed 12.00 - 1.00 pm, Thu 12.00 - 1.00 pm
AR3402	Media Arabic 2	15	2	Wed 12.00 - 1.00 pm, Thu 12.00 - 1.00 pm
AR3411	Modern Arab Culture and Society	15	2	10.00 am Mon, 10.00 am Thu
AR3421	Arabic Short Stories 1	15	1	11.00 am Wed, 11.00 am Thu
AR3422	Arabic Short Stories 2	15	2	11.00 am Wed, 11.00 am Thu
AR3461	Key Texts in Classical Arabic Literature and Culture 1	15	1	2.00 pm Mon, 2.00 pm Thu
AR3462	Key Texts in Classical Arabic Literature and Culture 2	15	2	2.00 pm Mon, 2.00 pm Thu
AR4401	Advanced Arabic 1	15	1	3.00 or 4.00 pm Mon, 3.00 or 4.00 pm Thu (or 5.00 pm Thu in even weeks)
AR4402	Advanced Arabic 2	15	2	3.00 pm or 4.00 pm Mon, 3.00 pm or 4.00 pm Thu (or 5.00 pm Thu in even weeks)
AR4421	Exile and Identity	15	1	2.00 pm Tue, 2.00 pm Thu
AR4422	Novellas	15	2	4.00 pm Tue, 2.00 pm Thu
AR4461	Classical Arabic Poetry	15	1	11.00 am Mon, 11.00 am Thu
AR4462	Classical Arabic Prose	15	2	11.00 am Mon, 11.00 am Thu
AR4999	Dissertation in Arabic Studies	30	Whole Year	To be arranged.

Art History

AH3104	The Age of Klimt, Olbrich and Mucha	30	2	3.00 pm - 5.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)
AH3130	Approaches to Art History	30	1	11.00 am - 12.30 pm Mon and either 9.00 am - 10.30 am (2 groups) or 11.00 am - 12.30 pm (2 groups) Wed
AH3131	A Survey of Islamic Art	30	1	9.00 am - 11.00 am Wed (lecture) and either 10.00 am or 12 pm Thu (seminar)
AH3196	Modern Art beyond the West	30	2	1.00 pm Mon and 1.00pm Tues (lectures) and either 9.00 am or 11.00 am Wed (seminar)

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Art History (continued)				
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AH3235	Spanish Painting in the Age of Velázquez	30	1	9.00 am – 11.00 am Tue (lecture) and either 10.00 am or 11.00 am Wed (seminar)
AH4050	Approaches to Persian Painting and the Arts of the Book	30	2	10.00 am - 12.00 pm Wed (lecture) and either 10.00 am or 12 pm Thu (seminar)
AH4078	Art and Politics in France, 1945 - 1975	30	2	3.00 pm - 5.00 pm Tue (lecture) and either 9.00 am or 11.00 am Thu (seminar)
AH4097	60-Credit Honours Dissertation in Art History	60	Whole Year	As arranged with Supervisor and Honours Adviser
AH4099	30-Credit Dissertation in Art History	30	1 & 2	As arranged with Supervisor and Honours Adviser
AH4130	Realism and Symbolism in Russian Art 1860 - 1910	30	1	3.00 pm - 5.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)
AH4167	Symbolism, Decadence and Modernity	30	2	10.00 am Tue and 12.00 pm Wed (lectures) and either 10.00 am or 12.00 pm Thu (seminar)
AH4177	Objects of Devotion: The Art and Material Culture of Mediaeval Christianity	30	1	11.00 am - 1.00 pm Tue (lecture) and either 10.00 am or 12.00 noon Thu (seminar)
AH4184	The Art of the Apocalypse from the Middle Ages to the Present	30	2	11.00 am - 1.00 pm Tue (lecture) and either 11.00 am or 1.00pm Thurs (seminar)
AH4185	Michelangelo: Sculptor, Painter, Architect	30	2	9.00 am Tue and 9.00 am Wed (lectures) and either 11.00 am or 12.00 pm (seminar)
AH4191	Art, Science, and Technology 1700-1900	30	2	11.00 am - 1.00 pm Mon (lecture) and either 9.00 am or 10.00 am Tue (seminar)
AH4192	Images of Empire	30	1	9.00 am – 11.00 am Mon (lecture) and either 10.00 am or 11.00 am Tue (seminar)
AH4205	Byzantium, 330 - 1453: Art, Religion and Imperial Power	30	1	11.00 am - 1.00 pm Thu (lecture) and either 3.00 pm or 4.00 pm Thu (seminar)
AH4208	The Portrait in Western Art	30	1	9.00 am - 11.00 am Thu (lecture) and either 3.00 pm or 4.00 pm (seminar)
AH4209	Portuguese Renaissance from Local to Global	30	2	11.00 am - 1.00 pm Thurs (lecture) and either 3.00 pm or 4.0pm Thurs (seminar)
AH4216	Mediaeval Islamic Painting	30	2	12.00 noon - 2.00 pm Fri (lecture) and either 3.00 pm or 4.00 pm Fri (seminar)
AH4221	The French Avant-Garde from Realism to Impressionism	30	1	11.00 am – 1.00 pm Wed (lecture) and either 9.00 am or 10.00 am Thu (seminar)
AH4226	African Modernisms	30	1	to be confirmed
AH4235	Communication in Art History	15	Whole Year	Lectures - To be arranged Workplace experience to be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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Art History

AH4236	Images and Knowledge in Early Modern Europe	30	2	9.00 am – 11.00 am Mon (lecture) and either 10.00 am or 12.00 pm Wed (seminar)
AH4240	The Art of War: Battle, Rivalry, Paragone, 1400-1700	30	2	4.00 pm – 6.00 pm Thu (lecture) and either 10.00 am or 11.00 am Fri (seminar)
AH4245	The Intersectional Body in Art Since the 1960s	30	1	Thursday 16:00 - 18:00
AH4246	The Art and Visual Culture of the Global HIV/AIDS epidemic	30	2	Thursday 09:00 - 11:00

Astronomy

AS3013	Computational Astrophysics	15	2	2.00 pm - 5.30 pm Mon and Thu (TBC)
AS4010	Extragalactic Astronomy	15	1	12.00 noon Mon, Tue, Thu (TBC)
AS4011	The Physics of Nebulae and Stars 1	15	1	10.00 am Tue, Wed, Thu (TBC)
AS4012	The Physics of Nebulae and Stars 2	15	2	11.00 am odd Mon, Wed, Fri, 3.00 pm even Tue (TBC)
AS4015	Gravitational and Accretion Physics	15	2	9.05 am - 12.00 noon Mon, Wed, Fri
AS4025	Observational Astrophysics	15	1	2.00 pm - 5.30 pm Mon and Thu, plus some nights. (TBC)
AS4103	Astrophysics Project (BSc)	30	Whole Year	Half time in second semester, plus some preparation in first semester.
AS5001	Advanced Data Analysis	15	1	9.00 am Tue, Thu, 10.00 am Mon, 12.00 noon Thu and 3.00 pm - 5.00 pm Tue (Lab) (TBC)
AS5002	Magnetofluids and Space Plasmas	15	1	11.00 am Mon, Tue, Thu (TBC)
AS5003	Contemporary Astrophysics	15	1	12.00 noon Wed, Fri and 3.00 pm Mon (TBC)
AS5101	Astrophysics Project (MPhys)	60	Whole Year	Full time in second semester, plus some preparation in first semester.

Biology

BL3000	Field Course	10	1	1-week residential course in summer vacation normally just prior to Orientation week.
BL3301	Protein Structure and Function	20	1	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3302	Gene Regulation	20	1	Lectures: 10.00 noon Mon, Tue and Wed Practicals: to be arranged.
BL3303	Membranes and Cell Communication	20	2	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3307	Evolution	20	1	Lectures: 11 am Mon, Tue and Wed Practicals: to be arranged.
BL3308	Aquatic Ecology	20	1	Lectures: 10.00 am Mon, Tue and Wed Practicals: residential field trip.
BL3309	Ecosystems and Conservation	20	2	Lectures: 10.00 am Mon, Tue and Wed Practicals: to be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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Biology (continued)				
BL3310	Bioenergetics	20	2	Lectures: 12.00 noon Mon, Tue and Wed Practicals: to be arranged.
BL3311	Infection and Disease	20	2	Lectures: 10.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3315	Developmental Biology	20	2	Lectures: 11.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3316	Animal Plant Interactions	20	2	Lectures: 12.00 noon Mon, Tue and Wed Practicals: to be arranged.
BL3318	Biology of Marine Organisms	20	2	Lectures: 12 noon Mon, Tue and Wed Practicals: to be arranged.
BL3319	Animal Behaviour: A Quantitative Approach	20	2	Lectures: 9.00 am Mon, Tue and Wed Practicals: to be arranged.
BL3320	Statistical and Quantitative Skills for Biologists	10	1	To be arranged.
BL3321	Advanced Critical Analysis Reading Party	10	1	1 week in summer vacation just prior to Orientation week
BL3322	Basic Biochemistry Laboratory	10	1	1 week in summer vacation just prior to Orientation week
BL3323	Terrestrial Zoology	20	1	9.00 am Mon, Tue, Wed. Practical: to be arranged.
BL4200	Literature-based Research Project	30	Whole Year	To be arranged.
BL4201	Experimental Research Project	60	Whole Year	To be arranged.
BL4210	Practical Skills for Molecular Biology and Biochemistry	15	1	To be arranged.
BL4211	Antimicrobials - Mode of Action and Resistance	15	1	To be arranged.
BL4212	How Enzymes Work	15	1	To be arranged.
BL4213	Molecular Virology	15	1	To be arranged.
BL4215	Bacterial Virulence Factors	15	1	To be arranged.
BL4216	Structure-based Drug Discovery	15	1	To be arranged.
BL4222	Metabolic and Clinical Biochemistry	15	1	To be arranged.
BL4223	Molecular and cell biology of eukaryotic DNA replication	15	1	To be arranged.
BL4224	Molecular Mechanisms of Membrane Trafficking	15	2	To be arranged.
BL4225	Advanced Microscopy and Image Analysis - Seeing is Believing	15	1	To be arranged
BL4226	Chromatin and Genome Stability	15	2	To be arranged
BL4232	Neuroethology	15	1	To be arranged.
BL4249	Scientific Diving	15	2	Full Time 2-3 weeks in January/February
BL4251	Tropical Marine Biology	15	1	To be arranged.
BL4254	Fisheries Research	15	2	To be arranged.

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Biology (continued)				
BL4255	Marine and Environmental Biotechnology	15	1	To be arranged.
BL4256	Marine Bioacoustics	15	1	To be arranged.
BL4258	Foraging in Marine Mammals	15	1	To be arranged.
BL4259	Marine Mammals and Man	15	2	To be arranged.
BL4260	Biological Oceanography	15	1	To be arranged.
BL4262	Environmental Drivers of Marine Habitats	15	1	To be arranged.
BL4263	The Question of Culture in Cetaceans	15	2	To be arranged.
BL4266	Conservation Research Methods	15	1	To be arranged.
BL4268	Science Communication of Biodiversity and Conservation	15	2	To be arranged.
BL4270	Plant-environment Interactions	15	2	To be arranged.
BL4274	Evolutionary Developmental Biology	15	1	To be arranged.
BL4275	Evolution in Action	15	1	To be arranged.
BL4278	Biology of Dinosaurs and Other Extinct Vertebrates	15	1	To be arranged.
BL4279	The CRISPR system for Antiviral Defence and Genome Engineering	15	1	To be arranged
BL4280	Evolution and Human Behaviour	15	1	To be arranged.
BL4282	Biology and Behaviour of Social Insects	15	2	To be arranged.
BL4285	Complex Systems in Animal Behaviour	15	2	To be arranged.
BL4286	Advanced Topics in Evolution	15	2	To be arranged.
BL4288	Major Review Paper in Evolutionary Biology	15	1	To be arranged
BL4289	Animal Cognition	15	1	To be arranged
BL4301	Polar Ecology: A field course in Antarctica	15	Whole Year	To be arranged.
BL4601	Research Project Development and Methodology	20	Whole Year	Distance learning during External Placement
BL4602	External Research Placement	100	Whole Year	External placement
BL4603	External Research Placement	90	Whole Year	To be arranged
BL5000	Research Project Development and Methodology	30	Whole Year	null
BL5410	Advanced Topics in Biomolecular Sciences	30	Whole Year	To be arranged.
BL5411	Advanced Topics in Biology	30	Whole Year	To be arranged
BL5440	Major Review Paper in Evolutionary Biology	15	1	To be arranged.
BL5441	Animal Cognition	15	1	To be arranged.
BL5499	Advanced Laboratory Research Project	60	Whole Year	variable, as needed

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Chemistry				
CH3431	Chemistry Workshop	10	Whole Year	To be arranged.
CH3441	Mini Chemistry Project	20	2	9.00 am - 12.30 pm Mon - Fri for 5 weeks (Weeks 7 - 11).
CH3512	Organometallic Chemistry	10	2	To be arranged.
CH3513	Chemistry of Materials	10	2	To be arranged.
CH3514	Physical Inorganic Chemistry	10	1	To be arranged.
CH3521	Inorganic Chemistry Laboratory	10	2	9.00 am - 12.30 pm (Weeks 1 - 5)
CH3612	Synthetic Methodology	10	2	To be arranged.
CH3613	Carbohydrate and Nucleic Acid Chemistry	10	2	To be arranged.
CH3615	Mechanism in Organic Chemistry	10	1	To be arranged.
CH3621	Organic Chemistry Laboratory	10	1	9.00 am - 12.30 pm Mon to Fri (Weeks 1 - 5)
CH3622	Organic Chemistry Laboratory (Materials)	10	1	9.00 am - 12.30 pm Mon to Fri (Weeks 1 - 5)
CH3712	Quantum Theory of Atoms, Molecules and Solids	10	2	To be arranged.
CH3715	Introduction to Analysis of Materials	10	2	To be arranged.
CH3716	Quantitative Aspects of Medicinal Chemistry	10	1	To be arranged.
CH3717	Statistical Mechanics and Computational Chemistry	10	1	To be arranged.
CH3721	Physical Chemistry Laboratory	10	1	9.00 am - 1.00 pm Mon to Fri (Weeks 7-10)
CH4421	Chemistry Research Skills Laboratory	30	Whole Year	9:00 - 13:00
CH4431	Scientific Writing	20	Whole Year	To be arranged
CH4441	External Placement	90	Whole Year	Please Contact School
CH4442	Chemistry Research Project	60	Whole Year	2 days per week, to be arranged.
CH4453	Chemistry Distance Learning (Materials Chemistry)	10	Whole Year	n/a - Distance Learning
CH4455	Chemistry Distance Learning (Inorganic Chemistry)	10	Whole Year	n/a - Distance learning
CH4456	Chemistry Distance Learning (Organic Chemistry)	10	Whole Year	n/a - Distance Learning
CH4458	Chemistry Distance Learning (Physical Chemistry)	10	Whole Year	n/a - Distance learning
CH4461	Integrating Chemistry	10	1	To be arranged.
CH4514	Advanced Metal Chemistry	10	1	To be arranged.
CH4515	Advanced Main Group Chemistry	10	2	To be arranged.
CH4612	Blockbuster Pharmaceuticals	10	2	To be arranged.
CH4614	Heterocyclic and Pericyclic Chemistry	10	1	To be arranged.

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Chemistry (continued)				
CH4615	Fragrance, Food and Colour Chemistry	10	2	To be arranged.
CH4715	Functional Materials and Electrons in Solids	10	2	To be arranged.
CH4716	Electrochemistry and Computational Chemistry	10	1	To be arranged.
CH4717	Fundamentals of the Spectroscopy of Molecules and Solids	10	2	To be arranged.
CH5441	Research Project	60	Whole Year	2 days per week, to be arranged.
CH5461	Integrating Chemistry	10	1	To be arranged.
CH5511	Homogeneous Catalysis	10	1	To be arranged.
CH5517	Advanced Physical Inorganic Chemistry	10	2	To be arranged.
CH5518	Blockbuster Solids	10	2	To be arranged.
CH5611	Asymmetric Synthesis	10	1	To be arranged.
CH5612	Natural Products, Biosynthesis and Enzyme Co-factors	10	2	To be arranged.
CH5613	Reactive Intermediates	10	2	To be arranged.
CH5614	Chemical Biology	10	2	To be arranged.
CH5616	Molecular Recognition	10	2	To be arranged.
CH5711	Advanced Spectroscopic Methods	10	1	To be arranged.
CH5713	Surface Science and Heterogeneous Catalysis	10	2	To be arranged.
CH5714	Chemical Applications of Electronic Structure Calculations	10	2	To be arranged.
CH5715	Energy Conversion and Storage	10	2	To be arranged.
CH5716	Processing of Materials	10	1	To be arranged.
CH5717	Nanostructured Materials	10	1	To be arranged.
Classical Studies				
CL4406	Herodotus	30	1	TBC
CL4433	Religions of the Greeks	30	2	TBC
CL4435	Greek Theatre	30	1	TBC
CL4445	Women in Ancient Societies	30	1	TBC
CL4455	Roman Praise	30	2	TBC
CL4464	The Religious Sense in the Classical Roman World	30	2	To be arranged
CL4604	Greek Sculpture	30	1	TBC
CL4794	Joint Dissertation (30cr)	30	2	To be arranged.
CL4794	Joint Dissertation (30cr)	30	1	To be arranged.
CL4795	Joint Dissertation (60cr)	60	Whole Year	To be arranged.
CL4990	Special Topic in Classical Studies	15	1	To be arranged.
CL4997	Dissertation (Non-Graduating) (30)	30	2	To be arranged.
CL4997	Dissertation (Non-Graduating) (30)	30	1	To be arranged.

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Classical Studies (continued)

CL4999	Dissertation (Short) in Ancient History, Ancient History and Archaeology, or Classical Studies	30	2	To be arranged.
CL4999	Dissertation (Short) in Ancient History, Ancient History and Archaeology, or Classical Studies	30	1	To be arranged.

Comparative Literature

CO3001	Issues in Comparative Literature	15	1	To be arranged.
CO3003	Comparative Literature: Contours and Constellations 2	15	2	Tues 14:00 - 15:30
CO3020	Cultural Memory and Literature	15	1	To be arranged.
CO3021	Crossing the Mediterranean	15	2	To be arranged.
CO4002	The Literary Canon	15	2	To be arranged.
CO4024	Performing Early-Modern Sexualities	15	2	To be arranged.
CO4027	Folk and Fairy Tales	15	1	To be arranged.
CO4028	Great Works and their Adaptations: Proust's Remembrance of Things Past	15	2	To be arranged.
CO4029	Science and Culture in European Modernisms	15	1	To be arranged.
CO4098	Short Dissertation in Comparative Literature	15	2	To be arranged.
CO4098	Short Dissertation in Comparative Literature	15	1	To be arranged.
CO4099	Long Dissertation in Comparative Literature	30	Whole Year	not applicable.

Computer Science

CS3052	Computational Complexity	15	2	To be arranged.
CS3099	Software Engineering Team Project	30	Whole Year	To be arranged.
CS3101	Databases	15	1	To be arranged.
CS3102	Data Communications and Networks	15	2	To be arranged.
CS3104	Operating Systems	15	1	To be arranged.
CS3105	Artificial Intelligence	15	2	To be arranged.
CS3106	Human Computer Interaction	15	1	To be arranged.
CS3301	Component Technology	15	2	To be arranged.
CS3302	Data Encoding	15	1	To be arranged.
CS4052	Logic and Software Verification	15	1	To be arranged.
CS4098	Minor Software Project	15	Whole Year	To be arranged.
CS4099	Major Software Project	30	Whole Year	To be arranged.
CS4102	Computer Graphics	15	2	To be arranged.
CS4103	Distributed Systems	15	2	To be arranged.
CS4144	Visual Analytics	15	2	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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Computer Science (continued)				
CS4201	Programming Language Design and Implementation	15	1	To be arranged.
CS4202	Computer Architecture	15	1	To be arranged.
CS4203	Computer Security	15	1	To be arranged.
CS4204	Concurrency and Multi-Core Architectures	15	2	To be arranged.
CS4302	Signal Processing and Perception for Digital Media	15	1	To be arranged.
CS4303	Video Games	15	1	To be arranged.
CS4402	Constraint Programming	15	2	To be arranged.
CS4499	Computer Science (Special Subject)	15	2	To be arranged.
CS4499	Computer Science (Special Subject)	15	1	To be arranged.
CS4796	Joint Project (30cr)	30	Whole Year	To be arranged.
CS5010	Artificial Intelligence Principles	15	1	To be arranged.
CS5011	Artificial Intelligence Practice	15	1	To be arranged.
CS5012	Language and Computation	15	2	To be arranged.
CS5014	Machine Learning	15	2	To be arranged.
CS5020	Principles of Computer Communication Systems	15	1	To be arranged.
CS5022	Practice in Computer Communication Systems	15	1	To be arranged.
CS5030	Software Engineering Principles	15	1	To be arranged.
CS5031	Software Engineering Practice	15	2	To be arranged.
CS5032	Critical Systems Engineering	15	1	To be arranged.
CS5033	Software Architecture	15	2	To be arranged.
CS5040	Human Computer Interaction Principles and Methods	15	1	To be arranged.
CS5041	Interactive Software and Hardware	15	1	To be arranged.
CS5042	User-Centred Interaction Design	15	2	To be arranged.
CS5044	Information Visualisation and Visual Analytics	15	2	To be arranged.
CS5052	Data-Intensive Systems	15	2	To be arranged.
CS5055	Data Ethics and Privacy	15	2	To be arranged.
CS5199	Individual Masters Project	60	2	Full-time for one semester.
CS5199	Individual Masters Project	60	1	Full-time for one semester.

Module Code	Module Title	Credits	Semester	Planned Timetable
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Divinity				
DI3703	Reading in Reformation and Early Modern Theology	15	1	Lecture 11.00 am - 12.00 noon Tue, Seminar 11.00 am - 1.00 pm Thu (Classes held in Weeks 1-5 essay submitted in week 6) - Time to be confirmed
DI3704	Reading in Theological Ethics	15	1	Lecture 11.00 am - 12.00 noon Tue, Seminar 11.00 am - 1.00 pm Thu (Classes held in Weeks 7 - 11 essay submitted in week 12) - Time to be confirmed
DI3716	Reading in the Greek New Testament	30	1	9.00 am - 11.00 am Mon and Thu - Time to be confirmed
DI4015	Communication in Divinity	15	1	To be arranged.
DI4498	Honours Dissertation in Divinity	30	1	11.00 am - 1.00 pm Wed
DI4498	Honours Dissertation in Divinity	30	2	11.00 am - 1.00 pm Wed
DI4524	Scottish Spirituality	30	2	To be arranged.
DI4526	Christian Mysticism Through the Ages	30	1	To be arranged.
DI4550	Baylor University Module	15	1	To be arranged.
DI4551	Baylor University Module	15	2	To be arranged.
DI4552	Belmont University Module	15	2	To be arranged
DI4604	Johannine Literature and Theology: English Text	30	2	To be arranged
DI4605	Johannine Literature and Theology: Greek Text	30	2	To be arranged
DI4628	Epistle to the Hebrews: English Text	30	1	To be arranged.
DI4700	Hebrew Prose and Poetry	30	2	To be arranged.
DI4726	Hebrew Readings	30	1	To be arranged.
DI4731	Ancient Jewish Literature from 1 Enoch to the Mishnah	30	2	To be arranged.
DI4733	Creation and Chaos in the Hebrew Bible and the Ancient Near East	30	1	To be arranged.
DI4794	Joint Dissertation (30cr)	30	1	To be arranged.
DI4794	Joint Dissertation (30cr)	30	2	To be arranged.
DI4800	Theology and Pastoral Care	30	2	To be arranged.
DI4826	Themes in Postcolonial Theology	30	1	11.00 am - 2.00 pm Wed
DI4827	Christian Ethics and Contemporary Society	30	2	Lecture: 12.00 noon - 1.00 pm Mon, Seminar: 2.00 pm - 4.00 pm Thu
DI4936	Theology and Literature	30	2	2.00 pm - 5.00 pm Thu
DI4940	Analytic Theology	30	2	To be arranged

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Earth & Environmental Sciences				
ES3001	Geological Mapping	15	1	To be arranged.
ES3002	Analytical and Statistical Methods in Earth Sciences	15	1	11.00 am - 1.00 pm Mon (analytical methods), 2.00 pm - 4.00 pm Thu (stats)
ES3003	GIS and Spatial Analysis for Earth Scientists	15	2	10.00 am - 1.00 pm Mon, Wed (lecture plus lab session) (Weeks 1 - 7)
ES3004	Processes and Products in Sedimentary Systems	15	2	9.00 am - 10.00 am Tue - Thu (lectures), 2.00 - 5.00 pm Mon (practicals). 3 field days (9.00 am - 5.00 pm)
ES3006	Advanced Geological Mapping	15	2	9.00 am - 5.00 pm Fri (map practicals)
ES3007	Structural Geology and Tectonics	15	2	10.00 am - 12.00 noon Thu (lectures), 2.00 - 5.00 pm (practicals)
ES3008	Geochemistry	15	1	10.00 am Tue and Thu (lectures), 2.00 - 5.00 Fri (practicals)
ES3009	Igneous and Metamorphic Petrology	15	1	9.00 am Tue and Thu (lectures); 2.00 pm - 5.00 pm Mon (practicals)
ES3010	Advanced Environmental Field Methods	15	2	9.00 am - 5.00 pm Fri (Weeks 1 - 4)
ES3011	Global Biogeochemical Cycles	15	2	To be arranged.
ES3012	Advanced Geological and Environmental Field Methods	15	2	To be arranged.
ES3099	Field Methods in Geosciences	30	2	none - field-based module.
ES4001	Field Excursion and Map Interpretation	15	1	12 days fieldwork in August - September. 9.00 am - 5.00 pm Fri (practicals)
ES4002	Research Review, Essay and Seminar	15	1	Not applicable.
ES4003	Research Dissertation	45	Whole Year	Not applicable.
ES4007	Petroleum Exploration and Geophysics	15	1	11.00 am - 1.00 pm Thu (lectures), 2.00 - 5.00 pm Thu (practicals)
ES4008	Environmental Excursion	15	1	6 days fieldwork preceding Senior Honours. 9.00 am - 5.00 pm Fri (practicals)
ES4010	Joint Honours Research Project	30	Whole Year	Not applicable.
ES4011	Work Placement in Earth Sciences	30	2	To be arranged.
ES4011	Work Placement in Earth Sciences	30	1	To be arranged.
ES4012	Research Placement in Earth Sciences	30	1	To be arranged.
ES4012	Research Placement in Earth Sciences	30	2	To be arranged.
ES4031	Analytical Sciences	5	1	To be arranged.
ES4801	Geology Field Camp in Scotland	24	Summer	Full time for 5 weeks
ES5001	Expedition Field Course	15	Whole Year	To be arranged.
ES5003	Research Dissertation	60	Whole Year	To be arranged.
ES5005	Isotope Geochemistry: Theory, Techniques, and Applications	15	1	To be arranged.

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Earth & Environmental Sciences (continued)				
ES5009	Geodynamics	15	2	9.00 am - 10.00 am Tue and Wed; 9.00 am - 5.00 pm Fri (Weeks 2,5,9)
ES5010	Advanced Geochemistry	15	2	To be arranged.
ES5011	Water in the Environment	15	1	To be arranged.
ES5013	Advanced Petrogenesis	15	1	10.00 am Mon and Tue (lectures). 10.00 - 1.00 pm Wed or Fri (practicals)
ES5050	Earth's Greatest Hits	15	2	Lectures: 11.00 am - 12.00 noon Thu, Seminars: 10.00 am - 1.00 pm Wed
ES5300	Magmatic-related Ore Deposits	15	1	To be arranged.
ES5301	Mineral Exploration	15	2	To be arranged.
ES5302	Hydrothermal Ore Deposits	15	2	To be arranged.
ES5303	Applied Geological Mapping	15	1	To be arranged
ES5304	3D Geological Modelling	15	2	To be arranged.
Economics & Finance				
EC3301	Econometrics	20	1	9.00 am - 11.00 am Tue.
EC3302	Decision and Game Theory	20	1	9.00 am - 11.00 am Mon.
EC3303	Economic Growth	20	1	9.00 am - 11.00 am Wed.
EC3304	Mathematical Economics	20	1	9.00 am - 11.00 am Thu.
EC3305	Incentives, Contracts and Markets	20	2	To be arranged.
EC3306	Economic Fluctuations	20	2	To be arranged.
EC3307	Computational Economics	20	1	TBC
EC4401	Advanced Econometrics	20	2	To be arranged.
EC4402	Economic History	20	1	2.00 pm - 4.00 pm Thu.
EC4405	Economics of the Environment	20	1	2.00 pm - 4.00 pm Tue.
EC4407	Behavioural Economics	20	2	To be arranged.
EC4408	Industrial Organisation and Regulations	20	2	To be arranged.
EC4409	International Macroeconomics	20	1	11.00 am - 1.00 pm Fri.
EC4410	International Trade	20	2	To be arranged.
EC4413	European Macroeconomics	20	2	To be arranged.
EC4414	Macroeconomic Policy	20	2	To be arranged.
EC4415	Public Economics	20	2	To be arranged.
EC4417	Financial Economics: Asset Pricing	20	1	2.00 pm - 4.00 pm Mon.
EC4418	Financial Economics: Corporate Finance	20	2	To be arranged.
EC4420	Inequality and Redistribution	20	1	Tuesday 11-1pm
EC4422	Communication and Public Engagement in Economics & Finance	5	1	To be arranged
EC4424	The Economics of Migration	20	2	To be arranged.
EC4425	Econometrics of Impact Evaluation	20	2	To be arranged.
EC4426	Practical Financial Modelling	20	2	To be arranged
EC4427	Philosophy of Economics	20	1	To be arranged.

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Economics & Finance (continued)				
EC4430	Portfolio Management	20	1	TBC
EC4432	Development and Finance	20	1	To be arranged
EC4498	Research Project in Economics	20	1	1.00 pm - 2.00 pm Thu (Weeks 1 - 4 only)
EC4499	Dissertation in Economics	40	Whole Year	11.00 am - 12.00 noon Thu (Weeks 2, 4 and 8 only)
EC5201	Macroeconomics	20	1	To be arranged.
EC5202	Microeconomics	20	1	To be arranged.
EC5203	Econometric Methods and Applications	20	1	To be arranged.
English				
EN3111	Beowulf	30	1	10.00 am and 11.00 am Fri
EN3112	Chaucer's Canterbury Tales	30	2	11.00 am - 1.00 pm Wed
EN3113	Unreformed Scotland: Older Scots Literature to 1560	30	1	10.00 am Tue and 11.00 am Thu
EN3141	Tragedy in the Age of Shakespeare	30	2	S1 - 12.00 noon Tue and 12.00 noon Thu S2 - 12.00 noon Thu and 1.00 pm Thu
EN3141	Tragedy in the Age of Shakespeare	30	1	S1 - 12.00 noon Tue and 12.00 noon Thu S2 - 12.00 noon Thu and 1.00 pm Thu
EN3142	Renaissance Literature: Texts and Contexts	30	2	12.00 noon Tue and 2.00 pm Thu
EN3163	The Younger Romantics: Poetry and Prose (1810 - 1830)	30	2	11.00 am Thu and 11.00 am Fri
EN3165	'Loose Baggy Monsters': The Rise and Fall of the Victorian Novel	30	2	9.00 am - 11.00 am Wed
EN3202	Literature and Ecology	30	2	11.00 am Thu and 11.00 am Fri
EN3212	Modernist Literature: Making It New?	30	1	3.00 pm - 5.00 pm Thu
EN3213	Postcolonial Literature and Theory	30	1	1.00 pm Tue and 1.00 pm Thu
EN3214	The Country and the City in Scottish Literature	30	2	12.00 noon - 2.00 pm Mon
EN3215	Atomic Cultures: Anglophone Writing and the Global Cold War	30	1	11.00 am Tue and 11.00 am Thu
EN3216	Modern Experimental Poetry	30	2	3.00 pm - 5.00 pm Thu
EN3217	Writing Poetry	30	2	9.00 am - 11.00 am Wed
EN4312	Authorising English: Society, Gender and Religion in Late Mediaeval English Literature	30	1	3.00 pm and 4.00 pm Mon
EN4314	Old English Afterlives: Literary Anglo-Saxonism	30	2	3.00 - 5.00 pm Tue
EN4315	Apocalyptic Literature in Early English	30	1	9.00 am and 10.00 am Thu
EN4316	Courtly Literature in Middle English	30	2	11.00 am Tue and 12.00 noon Thu
EN4341	Renaissance Sexualities: Rhetoric and the Body 1580 - 1660	30	2	2.00 pm Tue and 2.00 pm Thu
EN4344	Early English Romance Comedy: Shakespeare and his Contemporaries	30	1	2.00 pm Mon and 11.00 am Wed
EN4346	The Early Tudors: Literature and Reformation	30	2	10.00 am Tue and Thu

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Module Code	Module Title	Credits	Semester	Planned Timetable
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English (continued)				
EN4347	Milton	30	1	11.00 am - 1.00 pm Mon
EN4348	Bodies and Selves in the Renaissance	30	1	1.00 pm - 3.00 pm Tue
EN4361	The Novels of Jane Austen in Context	30	1	10.00 am - 12.00 noon Mon
EN4362	Mind, Body and Soul: Literature in the Enlightenment	30	1	2.00 pm Tue and 2.00 pm Thu
EN4365	Literature and Childhood in the Eighteenth Century	30	1	9.00 am - 11.00 am Wed
EN4367	Romantic Gothic	30	2	10.00 am Mon and 11.00 am Mon
EN4369	Victorian Literature and Science	30	1	3.00 pm - 5.00 pm Mon
EN4398	Special Topic in English	15	1	9.00 am Tue
EN4399	Dissertation in English	30	1	9.00 am Tue
EN4402	Speeches and Speechwriting: History, Theory and Practice	30	1	12.00 noon Wed and 1.00 pm Fri
EN4405	Contemporary Poetry in Great Britain and Ireland	30	2	3.00 pm - 5.00 pm Tue
EN4406	Contemporary British Fiction	30	2	11.00 am - 12.00 noon Mon and Thu
EN4407	Twentieth-Century Crime Fiction: Gender and Genre	30	2	11.00 am - 1.00 pm Wed
EN4413	Reading the 1940's	30	1	1.00 pm - 3.00 pm Thu (class) and 2.00 pm - 5.00 pm Fri (film viewing)
EN4416	Virginia Woolf	30	1	3.00 pm - 5.00 pm Thu
EN4417	Writing Poetry and Prose	30	1	3.00 pm - 5.00 pm Thu
EN4418	American Poetry since 1950	30	2	11.00 am - 1.00 pm Mon
EN4419	American Fiction: Self and Nation (1865 - 1939)	30	2	Semester 1: 1.00 pm Tue and 12 noon Wed Semester 2: 2.00 pm - 4.00 pm Fri
EN4419	American Fiction: Self and Nation (1865 - 1939)	30	1	Semester 1: 1.00 pm Tue and 12 noon Wed Semester 2: 2.00 pm - 4.00 pm Fri
EN4420	Writing Prose	30	2	10.00 am Wed and 11.00 am Wed
EN4422	Poetic Language	30	2	11.00 am - 1.00 pm Tue, 12.00 noon Thu
EN4423	Material Culture in Victorian and Modernist Fiction	30	2	2.00 pm - 4.00 pm Fri
EN4425	Celtic Modernisms	30	1	10.00 am - 12.00 noon Tue
EN4426	Civil Wars on Page and Screen	30	2	2.00 pm - 4.00 pm Mon, plus film viewing 2.00 pm - 5.00 pm Fri
EN4427	The Shape of the Poem	30	1	3.00 pm - 5.00 pm Tue
EN4430	Making Performance	30	2	10.00 am - 12.00 noon Fri
EN4432	Poetry and Cinema	30	1	2.00 pm - 4.00 pm Tue

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Module Code	Module Title	Credits	Semester	Planned Timetable
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English (continued)

EN4433	Black and Asian British Writing	30	2	1.00 pm Tue and 1.00 pm Thu
EN4500	Playwriting	30	1	11.00 am Wed and 12.00 noon Wed
EN4794	Joint Dissertation (30cr)	30	1	9.00 am Tue

Environmental Geography

EG3020	Global Climate Change	15	1	9.00 am - 10.00 am Wed and Thu, 2.00 pm - 5.00 pm Tue
EG3031	Special Topic for Physical Geography	5	1	To be arranged.

Film Studies

FM4099	Film Studies Dissertation	30	1 & 2	To be arranged.
FM4106	War and Cinema	30	1 & 2	TBC (seminars), 5.00 pm - 8.00 pm Thur (screenings)
FM4107	Cinema and Nation	30	2	12.00 noon - 14.00 Mon, 7.00 pm - 9.30 pm Tues (screenings)
FM4110	Images and Impact: The Uses of Film	30	1	2.00 pm - 4.00 pm Tue, 9.30 - 12 noon Mon (screenings)
FM4113	Ecocinema: The Nature of Film	30	2	TBC (Seminars), 5.00 pm - 8.00 pm Thu (mavsscreenings)
FM4114	Film Genres	30	2	10.00 am - 12.00 noon Tue, 7.00 pm - 9.30 pm Mon (screenings)
FM4118	Film and Fashion	30	2	2.00 pm - 4.00 pm Mon, 9.30 am - 12.00 noon Mon (screening)
FM4121	Screen Comedy	30	1	2.00 - 4.00 pm Monday, 4.30 - 7.00 pm Monday (Screening)
FM4122	Watching the Detectives: Murder, Mystery and the Media	30	1	10.00 -12.00 noon Tuesday, 7.00 - 9.30 pm Tuesday (Screening)
FM4123	Artists' Film and Video	30	1	12.00 - 2.00 pm Monday, 4.30 - 7.00 pm Tuesday (screening)
FM4206	Cinemas of India	30	2	2.00 pm - 4.00 pm Tues, 4.30 pm - 7.00 pm Tues (screening)
FM4207	British Cinemas: Conventions, Subversions, and Outsiders	30	1	12.00 noon - 2.00 pm Tue, 7.00 pm - 9.30 pm Mon (screenings)
FM4308	Film Sound	30	2	12.00 noon - 2.00 pm Tue, 4.30 - 7.00 pm Mon (screening)
FM4794	Joint Dissertation (30cr)	30	1	To be arranged.
FM4794	Joint Dissertation (30cr)	30	2	To be arranged.
FM4796	Joint Project (30cr)	30	2	To be arranged.
FM4796	Joint Project (30cr)	30	1	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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French				
FR3001	French Language 1	15	1	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon
FR3002	French Language 2	15	2	11.00 am, 12.00 noon, 2.00 pm or 3.00 pm Mon
FR3021	An Introduction to the French Classical Period	15	2	To be arranged.
FR3077	Contemporary French Fiction	15	1	To be arranged.
FR3080	Intellectuals in Modern France	15	2	To be arranged
FR3101	French Integrated Year Abroad	60	Whole Year	Please Contact Department
FR4103	Translation Methodology 1	15	1	To be arranged.
FR4104	Translation Methodology 2	15	2	To be arranged.
FR4105	Communication Skills in French 1	15	1	To be arranged.
FR4106	Communication Skills in French 2	15	2	To be arranged.
FR4110	Translating French Opera	15	2	To be arranged.
FR4111	Discovering the Renaissance: Imitation, Interpretation and Imagination	15	1	To be arranged.
FR4117	Politics, Propaganda and Mythmaking in Medieval France	15	1	To be arranged.
FR4118	Women's Voices in Renaissance France	15	2	To be arranged
FR4125	The French Age of Enlightenment	15	2	To be arranged.
FR4126	Flaubert's France	15	2	To be arranged.
FR4127	Nineteenth-Century French Narratives of the Sea	15	1	To be arranged.
FR4150	Creative Writing in French	15	1	To be arranged.
FR4160	From One War to Another: French Politics, Culture and Society 1914 - 1945 (2)	15	2	
FR4161	Antillean Identities	15	1	Mon and Wed - time TBC
FR4181	Contemporary French Crime Fiction	15	1	To be arranged.
FR4183	African Francophone Fiction	15	2	To be arranged.
FR4198	Dissertation on a French Topic	15	2	Please Contact Department
FR4198	Dissertation on a French Topic	15	1	Please Contact Department
FR4199	Long Dissertation on a French Topic	30	Whole Year	Please Contact Department
FR5810	French Science Project Dissertation	30	Whole Year	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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Geography				
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GG3100	Reconstructing Past Environments	20	1	11:00am -1:00pm Wed
GG3201	Single Honours Research Design and Methodology Training (60)	60	2	To be arranged.
GG3202	Joint Honours Research Design and Methodology Training (30)	30	2	To be arranged.
GG3203	Research Design and Methodology Training (50)	50	2	To be arranged.
GG3204	Research Design and Methodology Training (40)	40	2	To be arranged.
GG3227	Colonial and Postcolonial Geographies	20	1	9:00am - 11:00am Mondays
GG3229	Environmental Management in Scotland	20	1	09:00 - 11:00 Tuesday
GG3234	Migration and Transnationalism	20	1	14:00 - 16:00 Friday
GG3238	Development: voice, power and identity in global times	20	1	11:00am - 1:00pm Mondays
GG3242	Geographies of the Life Course	20	1	11:00am - 1:00pm Thursday
GG3263	Glaciers and Glaciation	20	1	09:00 - 11:00 Wednesday
GG3264	Oceans and Climate	20	1	11:00 - 13:00 Tuesdays
GG3272	Biogeography	20	1	11.00 am – 1:00 pm Monday
GG3273	Scrutinising Segregation: Geographies of Diversity and Inequality	20	1	11:00am - 1:00pm Wednesday
GG3275	Geomorphology: Landscapes, Landforms and Earth Surface Processes	20	1	09:00 - 12:00 Thursday
GG3301	Special Topic for Joint or Major Honours in Geography (Junior Honours)	10	1	timetable to be confirmed.
GG3302	Special Topic for Honours in Geography (Senior Honours)	10	2	timetable to be confirmed.
GG3302	Special Topic for Honours in Geography (Senior Honours)	10	1	timetable to be confirmed.
GG4201	Advanced Debates in Geography	10	2	To be arranged.
GG4297	Joint Honours Research Dissertation in Geography	30	2	To be arranged.
GG4298	Research Dissertation in Geography	50	2	To be arranged.
GG4301	Advanced Study for Joint or Major Honours in Geography	10	1	timetable to be arranged.

German				
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GM3005	German Language 1	15	1	11.00 am Tue and Fri
GM3006	German Language 2	15	2	11.00 am or 1.00 pm Tue and Fri
GM3088	Travel Writing in German since 1990	15	1	To be arranged.
GM3091	The Nazi Past in German Cultural Memory	15	2	To be arranged.
GM3101	German Integrated Year Abroad	60	Whole Year	Please Contact Department

Module Code	Module Title	Credits	Semester	Planned Timetable
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German (continued)				
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GM4007	Translation Methodology (German / English)	15	1	To be arranged.
GM4046	Mediaeval Things	15	2	To be arranged.
GM4056	German Popular Music: Sound, Page and Screen	15	1	Tues, Wed, Thur - Time TBC
GM4058	Memory and the Archive in Contemporary German Culture	15	2	TBC
GM4072	German Classicism	15	1	To be arranged.
GM4084	Germany's Monsters	15	1	To be arranged.
GM4094	The German Long Story (1880 - 1941)	15	2	To be arranged.
GM4098	Dissertation on German Topic	15	1	Please Contact Department
GM4098	Dissertation on German Topic	15	2	Please Contact Department
GM4099	Long Dissertation on a German Topic	30	Whole Year	Please Contact Department
GM4105	German Language 3	15	1	11.00 am or 3.00 pm Mon and 11.00 am or 3.00 pm Thu
GM4106	German Language 4	15	2	11.00 am or 3.00 pm Mon; 11.00 am or 3.00 pm Thu

Greek				
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GK3021	Greek for Honours Classics 1: Special Option	30	1	10.00 am - 11.00 am 4 days a week (Tue - Fri)
GK3022	Greek for Honours Classics 2: Special Option	30	2	10.00 am - 11.00 am 4 days a week (Tue - Fri)
GK4110	Imagining the Symposium	30	2	TBC
GK4117	Lies, History and Ideology	30	2	TBC
GK4119	Texts and Objects in the Greek World	30	1	Wednesday
GK4121	Violence in Early Greek Poetry	30	1	TBC
GK4126	Hellenistic Poetry	30	2	To be arranged
GK4998	Dissertation in Greek (Long)	60	2	To be arranged.
GK4998	Dissertation in Greek (Long)	60	1	To be arranged.
GK4999	Dissertation in Greek	30	2	To be arranged.
GK4999	Dissertation in Greek	30	1	To be arranged.

History				
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HI4101	Communication in History	15	1	To be arranged.
HI4794	Joint Dissertation (30cr)	30	1 & 2	To be arranged.
HI4997	Recording the Past	30	1 & 2	To be arranged.
HI4998	Honours Project in History	30	1 & 2	To be arranged.
HI4999	Honours Dissertation in History	30	Whole Year	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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Interdisciplinary				
ID4001	Communication and Teaching in Science	15	1	Flexible
ID4002	Communication and Teaching in Arts and Humanities	15	1	To be arranged.
ID4442	Combined Research Project in Biology and Geology	45	Whole Year	To be arranged.
ID5059	Knowledge Discovery and Datamining	15	2	11.00 am Mon (odd weeks), Wed and Fri
International Relations				
IR3004	International Political Economy	30	2	11.00 am Fri
IR3006	International Regimes and Organisations	30	1	9.00 am Tue
IR3008	International Terrorism	30	1	12.00 noon Thu
IR3021	Case Studies in Conflict Analysis	30	2	12.00 noon Thu
IR3022	International Relations and International Law	30	1	11.00 am Wed
IR3023	US Foreign Policy: The Dilemmas of Power	30	1	11.00 am Mon
IR3024	The Politics of Africa	30	1	10.00 am Mon
IR3026	Diplomacy and Conflict Intervention	30	1	2.00 pm Thu
IR3029	The Logic of Irregular Warfare	30	1	11.00 am Mon
IR3030	Human Rights in Theory and Practice	30	1	10.00 am Thu
IR3031	Globalisation and the War on Terrorism	30	1	11.00 am Tue
IR3032	Globalisation and its Disjunctures	30	2	10.00 am Thu
IR3033	Post-Conflict Transition in Sub-Saharan Africa	30	1	11.00 am Thu
IR3041	International Political Theory	30	1	2.00 pm Mon
IR3042	Representations of Violent Conflict: Research Seminar	30	2	10.00 am - 12.00 noon Tue, or 10.00 am - 12.00 noon Wed
IR3044	Pathways of European State Formation	30	2	11.00 am - 12.30 Wed
IR3045	Violence in Deeply-Divided Societies	30	1	10.00 am Wed
IR3046	Foreign Policy of Modern China	30	1	12.00 noon Mon
IR3048	Peacekeeping and Humanitarian Intervention	30	1	10.00 am - 12.00 noon Tue or 1.00 pm - 3.00 pm Tue
IR3053	Peacebuilding and Post-Conflict Transition in Latin America	30	2	11.00 am Tue
IR3054	Mapping the Boundaries of Emerging and Evolving Securities	30	1	12.00 noon Mon
IR3055	International Relations and the Internet	30	2	2.00 pm Thu
IR3056	Political Leadership: Theories and History	30	2	1.00 pm Tue
IR3057	Armaments and International Relations	30	1	1.00 pm - 2.00 pm Thu
IR3058	Armed Forces, Societies and Governments: An International Perspective on Civil-Military Relations	30	1	11.00 am - 12.00 noon Thu
IR3060	Rebellion and Revolution	30	1	1.00 pm Thu
IR3064	Critical Terrorism Studies	30	2	9.00 am - 11.00 am Mon or Tue

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Module Code	Module Title	Credits	Semester	Planned Timetable
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International Relations (continued)				
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IR3065	Refugees and International Relations	30	1	1.00 pm Mon
IR3066	Emotional Encounters: Diplomacy, Power and Persuasion in World Politics	30	1	3.00 pm Thu
IR3068	Christianity and World Politics	30	2	To be arranged.
IR3073	Dilemmas of International Order: Governing Conflict and Human Rights	30	2	To be arranged
IR3074	International Relations of Energy and the Environment	30	2	To be arranged
IR3075	Leader Personality and Foreign Policy	30	2	TBC
IR3075	Leader Personality and Foreign Policy	30	1	TBC
IR3076	Political Economy of Trade and Investment	30	1	To be arranged
IR3104	The International Relations of Post-Communist Central and Eastern Europe	30	1	9.00 am - 10.00 am Tue
IR3113	Gender and Generation	30	1	2.00 pm Fri
IR3300	Conflict in the Middle East	30	1	10.00 am Mon
IR3301	Politics and State Formation in the Middle East	30	1	11.00 am Tue
IR3302	Democracy and Revolution in North Africa	30	2	11.00 am Tue
IR3303	The Arab - Israeli Conflict	30	2	11.00 am or 12.00 noon Tue
IR4099	Honours Dissertation in International Relations	60	Whole Year	11.00 am - 1.00 pm Fri
IR4401	Communication in International Relations	15	1	not applicable
IR4516	The International Relations of Sub-Saharan Africa	30	2	10.00 am Tue
IR4519	Politics and Development in Southeast Asia	30	1	To be arranged
IR4523	The Aftermath of the Wars: Liberal Dilemmas	30	1	10.00 am Tue
IR4530	Genocide	30	2	3.00 pm Mon
IR4532	The Cultural Politics of Human Rights	30	1	10.00 am Mon
IR4535	Theories of Friendship, Solidarity and Peace	30	1	2.00 pm Thu
IR4538	Identities, Belonging and Others	30	1	12.00 noon - 1.30 pm Tue
IR4540	The Changing Character of War	30	1	2.00 pm Mon
IR4543	Activism and Resistance	30	2	2.00 pm Thu
IR4545	Indian Foreign Policy	30	2	12.00 noon Mon
IR4546	The Psychology of International Security	30	1	11.00 am - 1.00 pm Wed or 11.00 am - 1.00 pm Thu
IR4548	Force and Statecraft	30	1	1.00 pm Thu
IR4552	The Politics of the Environment	30	2	10.00 am Thu
IR4553	Europe, America and the Transatlantic	30	2	4.00 pm Tue
IR4555	Music, Politics and International Relations	30	1	12.00 noon - 2.00 pm Mon
IR4560	Faith, Politics, and War: The Augustinian Tradition in IR	30	1	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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International Relations (continued)				
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IR4561	Security as Ethics: Rethinking the Global Polity	30	2	2.00 pm Tue
IR4563	Rebels, Terrorists, Militias: The Comparative Analysis of Armed Groups	30	1	12.00 noon Wed
IR4564	Strategic Studies	30	2	10.00 am Fri
IR4565	Contemporary Political Theory: from revolution to recognition	30	1	10.00 am - 12.00 noon Tue or Wed
IR4566	Comparative regionalism	30	1	12.00 pm Tue
IR4568	International Relations of Energy and the Environment	30	2	To be arranged
IR4569	Geopolitics of Energy in the Caspian Region	30	2	11.00 am Wed
IR4570	Everyday Life and Global Politics	30	2	To be arranged.
IR4571	Conflict and intervention in world politics	30	2	Tuesday 11:00
IR4572	Economy of Anger: Marxism, Psychoanalysis and the Politics of Status	30	2	Wednesday 11:00 - 14:00
IR4600	Ideologies and Social Movements in the Middle East	30	2	12.00 noon Tue
IR4601	Political Order and Violence in the Middle East	30	2	11.00 am Tue
IR4602	International Relations of the Middle East	30	1	2.00 pm Tue
IR4606	Propaganda, Persuasion and Information War in the Middle East	30	1	2.00 pm Fri
IR4607	Britain's Iraq War 1990-2004	30	1	Lectures - Mon 10:00, Seminars Tues 13:00 and 14:00
IR4795	Joint Dissertation (60cr)	60	Whole Year	To be arranged.

Italian				
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IT3001	Italian Language 1	15	1	To be arranged.
IT3002	Italian Language 2	15	2	To be arranged.
IT3012	Fourteenth Century Literature	15	1	To be arranged
IT3014	The Language and Literature of Renaissance Italy	15	1	To be arranged.
IT3036	Venice	15	2	To be arranged.
IT3101	Italian Integrated Year Abroad	60	Whole Year	To be arranged.
IT4003	Communication Skills 1	15	1	To be arranged.
IT4004	Communication Skills 2	15	2	To be arranged.
IT4012	Dante Alighieri	15	2	To be arranged.
IT4024	Authority and Subversion in Renaissance Italy	15	2	To be arranged.
IT4027	Migration and Transculturality in New Italian Narratives	15	2	To be arranged.
IT4029	Black Italians	15	1	To be arranged.
IT4097	20-Credit Dissertation in Italian	20	1	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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Italian (continued)

IT4097	20-Credit Dissertation in Italian	20	2	To be arranged.
IT4098	Dissertation on an Italian Topic	15	1 & 2	To be arranged.
IT4099	Long Dissertation on an Italian Topic	30	Whole Year	To be arranged.

Latin

LT3017	Latin for Honours Classics 1	30	1	2.00 pm - 3.00 pm Tue,Thu and Fri
LT3018	Latin for Honours Classics 2	30	2	2.00 pm - 3.00 pm Tue,Thu and Fri
LT4201	Roman Epic	30	1	TBC
LT4203	Latin Prose Composition	30	2	TBC
LT4207	Roman Comedy	30	2	TBC
LT4215	Senecan Tragedy	30	1	TBC
LT4220	Latin Lyric	30	2	TBC
LT4222	Floating Words: Anonymous Writing in Ancient Rome	30	1	Tuesday and Thursday, 10:00-11:00
LT4999	Latin Dissertation	30	1	To be arranged.
LT4999	Latin Dissertation	30	2	To be arranged.

Management

MN3101	Corporate Finance and Control	20	1	To be arranged.
MN3102	Organisation Studies	20	1	4.00 pm - 6.00 pm
MN3116	Financial Markets and Investments	20	2	To be arranged.
MN3126	International Business	20	2	To be arranged.
MN3201	Research Methods: 1	20	1	To be arranged.
MN3202	Research Methods: 2	20	2	To be arranged.
MN4100	Contemporary Issues in Management	20	2	To be arranged.
MN4211	International Marketing	20	2	To be arranged.
MN4213	Human Resource Management	20	1	To be arranged.
MN4214	Management of Change	20	2	To be arranged.
MN4223	International Banking	20	2	11.00 am - 1.00 pm Fri
MN4227	Corporate Social Responsibility, Accountability and Reporting	20	1	To be arranged.
MN4236	Sociology of Finance	20	1	To be arranged.
MN4238	Sustainable Development and Management	20	2	To be arranged.
MN4241	Knowledge Work: Practice and Context	20	2	To be arranged.
MN4242	Advertising and Marketing Communications	20	1	To be arranged.
MN4244	Behavioural Decision Making	20	1	To be arranged.
MN4245	Leadership Development	20	1	To be arranged.
MN4263	Entrepreneurship and Small Business Development	20	1	To be arranged.
MN4266	Non Governmental Organisations (NGOs): Contexts, Contributions, and Challenges	20	2	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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Management (continued)				
MN4268	Equality and Diversity in Organisations	20	2	To be arranged.
MN4301	Management Project	20	1	To be arranged.
MN4301	Management Project	20	2	To be arranged.
MN4310	Scenario Thinking	20	2	To be arranged.
MN4311	Dynamic Strategic Management	20	2	To be arranged.
Mathematics & Statistics				
MT3501	Linear Mathematics 2	15	1	12.00 noon Mon (even weeks), Tue and Thu
MT3502	Real Analysis	15	1	11.00 am Mon (even weeks), Tue & Thu
MT3503	Complex Analysis	15	1	12.00 noon Mon (odd weeks), Wed and Fri
MT3504	Differential Equations	15	1	9.00 am Mon (odd weeks), Wed and Fri
MT3505	Algebra: Rings and Fields	15	2	11.00 am Mon (odd weeks), Wed & Fri
MT3506	Techniques of Applied Mathematics	15	2	12.00 noon Mon (odd weeks), Wed & Fri
MT3507	Mathematical Statistics	15	1	11.00 am Mon (odd weeks), Wed & Fri
MT3508	Applied Statistics	15	2	12.00 noon Mon (even weeks), Tue & Thu
MT3802	Numerical Analysis	15	1	10.00 am Mon (odd weeks), Wed and Fri
MT3852	Automata, Languages and Complexity	15	2	10.00 am Mon (even weeks), Tue, Thu.
MT4003	Groups	15	2	9.00 am Mon (even weeks), Tue and Thu
MT4004	Real and Abstract Analysis	15	2	11.00 am Mon (even weeks), Tue and Thu
MT4005	Linear and Nonlinear Waves	15	1	11.00 am Mon (even weeks), Tue and Thu
MT4111	Symbolic Computation	15	2	9.00 am Mon (odd weeks), Wed and Fri
MT4113	Computing in Statistics	15	1	12.00 noon Mon (odd weeks) and Wed, 12.00 noon - 2.00 pm Fri
MT4507	Classical Mechanics	15	2	10.00 am Mon (even weeks), Tue and Thu
MT4509	Fluid Dynamics	15	2	11.00 am Mon (even weeks), Tue and Thu
MT4510	Solar Theory	15	2	11.00 am Mon (odd weeks), Wed and Fri
MT4511	Asymptotic Methods	15	1	9.00 am Mon (even weeks), Tue and Thu
MT4514	Graph Theory	15	1	10.00 am Mon (even weeks), Tue and Thu
MT4515	Functional Analysis	15	2	12.00 noon Mon (even weeks), Tue and Thu
MT4527	Time Series Analysis	15	2	10.00 am Mon (even weeks), Tue and Thu
MT4531	Bayesian Inference	15	1	10.00 am Mon (even weeks), Tue and Thu
MT4539	Quantitative Risk Management	15	2	12.00 noon Mon (odd), Wed, Fri, and 2.00 pm Fri

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Mathematics & Statistics (continued)				
MT4552	Mathematical Biology 1	15	2	9.00 am Mon (even weeks), Tue and Thu
MT4553	Theory of Electric and Magnetic Fields	15	2	10.00 am Mon (odd weeks), Wed, Fri
MT4599	Project in Mathematics / Statistics	15	Whole Year	none
MT4607	Generalised Linear Models and Data Analysis	15	1	9.00 am Mon (even weeks), Tue and Thu
MT4608	Sampling Theory	15	1	10.00 am Mon (odd weeks), Wed and Fri
MT4609	Multivariate Analysis	15	2	10.00 am Mon (odd weeks), Wed and Fri
MT4614	Design of Experiments	15	2	9.00 am Mon (odd weeks), Wed and Fri
MT4794	Joint Dissertation (30cr)	30	Whole Year	To be arranged.
MT4796	Joint Project (30cr)	30	Whole Year	To be arranged.
MT5611	Advanced Symbolic Computation	20	2	9.00 am Mon (odd weeks), Wed and Fri
MT5751	Estimating Animal Abundance	15	2	12.00 noon Mon (odd), Wed and Fri
MT5758	Applied Multivariate Analysis	15	2	11.00 am Mon (even weeks), Tue and Thu
MT5761	Statistical Modelling	15	1	Mon, Tues, Thur, Fri 3:00 - 4:00 (lectures), Tues, Thur 4:00 - 5:00 (practicals)
MT5763	Software for Data Analysis	15	1	Mon, Tues, Fri 3:30 - 4:30 (lectures). Mon, Tues, Fri 4:30 - 5:30 (Practicals)
MT5764	Advanced Data Analysis	15	2	Mon 12:00-1:00 Weeks 2, 4, 5, 8, 10 Tues, Thur 12:00-2:00, Weeks 1-10 (lectures) Tues 2:00 - 3:00 Weeks 2-9 (practicals)
MT5765	Medical Statistics	15	2	10:00 - Mon (odd weeks), Wed, Fri
MT5802	Advanced Analytical Techniques	20	2	12.00 noon Mon (odd weeks), Wed and Fri
MT5806	Advanced Computational Techniques	20	2	12.00 noon Mon (even weeks), Tue and Thu
MT5809	Advanced Fluid Dynamics	20	1	11.00 am Mon (odd weeks), Wed and Fri
MT5810	Advanced Solar Theory	20	1	12.00 noon Mon (even weeks), Tue and Thu
MT5821	Advanced Combinatorics	20	2	12.00 noon Mon (odd weeks), Wed and Fri
MT5824	Topics in Groups	20	1	10.00 am Mon (odd weeks), Wed and Fri
MT5825	Measure and Probability Theory	20	1	11.00 am Mon (odd weeks), Wed and Fri
MT5830	Hyperbolic Geometry	20	2	10.00 am Mon (odd weeks), Wed and Fri
MT5831	Advanced Bayesian Inference	20	1	10.00 am Mon (even weeks), Tue and Thu
MT5836	Galois Theory	20	2	11.00 am Mon (odd weeks), Wed and Fri
MT5852	Mathematical Biology 2	20	1	9.00 am Mon (odd weeks), Wed and Fri
MT5990	Independent Study Module	20	2	To be arranged.

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Mathematics & Statistics (continued)

MT5990	Independent Study Module	20	1	To be arranged.
MT5991	Professional Skills for Mathematical Scientists	30	Whole Year	To be arranged.
MT5999	Advanced Project in Mathematics / Statistics	40	Whole Year	To be arranged.

Mediaeval History

ME3105	Archaeological Methods	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3142	The Castle in Mediaeval Scotland (1100 - 1550)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3162	The Mediaeval Castle	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3163	The Imperial City: Byzantine and Ottoman Constantinople	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3206	Inclusion and Exclusion in the Middle Ages	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3214	Italian City States: from Communes to Signorie c. 1000- c. 1350	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3223	The Rise and Fall of the Carolingian Empire, c.750 - 900	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3232	Queens and Queenship in Early Mediaeval Europe	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3236	Soldiers and Saints in Late Roman Gaul	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3237	Legal Cultures in Late Antiquity	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3309	Mediaeval St Andrews	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3313	Early Irish Society (c. 600-800)	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3314	Times of trouble: civil conflicts in the later fifteenth century	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3423	Justifying Mediaeval Warfare	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3425	The Age of Revolt (1250 - 1450)	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3426	Women and Gender in the Later Middle Ages	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3608	Eastern Approaches: Early Mediaeval Armenia c. 500 - 750	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3611	The Eastern Roman Empire in the Reign of Justinian 527 - 565	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3613	Arabs, Persians and Turks in the Early Islamic East in the Age of the Caliphates (600 - 1200)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3616	Missionaries, Assassins and State-builders: Militant Shi'ism in the Mediaeval Muslim World	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME3617	The Mamluks And The Mamluk Sultanate	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable

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Mediaeval History (continued)				
ME4712	'A Century of Iron': Rulers, Warriors and Scholars in Tenth-Century England and Germany	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME4750	Conflict and Cohabitation: Northern Britain c. 550 - 750	60	Whole Year	TBC
ME4752	The Wars of the Bruces: Kings, Nobles and Communities in the British Isles (1306 - 1346)	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME4807	The Early Mendicants: Francis, Clare and Dominic (c. 1180 - c. 1270)	60	Whole Year	10.00 am - 1.00 pm Wed
ME4815	France from Philip Augustus to Philip the Fair, c.1180-1315	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME4852	From Leo VI to Basil II: Byzantium in the Tenth Century	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME4855	Crusaders, Mongols and Mamluks: West and East in the Mid-Thirteenth Century	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
ME4857	The Mongol Empire and the Islamic World	60	Whole Year	Wednesday 09:30 - 12:30
ME4998	Honours Dissertation in Mediaeval Archaeology	30	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
Medicine				
MD3001	Medicine: Honours 1 (Cardiovascular and Respiratory Systems)	60	1	To be arranged.
MD3002	Medicine: Honours 2 (Reproductive, Renal and Gastrointestinal Systems)	60	2	To be arranged.
MD4001	Medicine: Honours 3 (Central Nervous System and Endocrine System)	60	1	To be arranged.
MD4002	Medicine: Honours 4 (Student-selected component)	40	2	To be arranged.
MD4003	Medicine: Honours 5 (Applied Medical Science)	20	2	To be arranged.
Modern History				
MO3005	The Early Reformation in Europe (1517 - 1555)	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3019	The Life of the Mind: Key Texts in European Thought (1512 - 1697)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3025	Empire and Nation: The Development of Colonial British America 1607 - 1770	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3026	Art and Piety in Western Europe 1400 - 1750	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3029	The Northern Renaissance	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3033	Europeans in Asia in the Early Modern Period	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3038	War and the State in the Era of the Military Revolution (1550 - 1730)	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3040	From Cradle To Grave: Living and Dying in Early Modern England (c. 1500 - 1800)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3041	Culture and Mentalities in Early Modern England (c. 1500 - 1800)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3043	Early Modern Rome (1300 - 1667)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable

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Modern History (continued)

MO3044	Topics in Renaissance Venice	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3047	The Tudors: Power and Piety in Sixteenth-Century England	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3048	Witches and Witch-hunting in Early Modern Europe	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3049	Political Thought From Machiavelli to Tocqueville	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3080	The Iranian World from the Timurids to the Safavids (1370 - 1722)	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3081	The Ottoman Empire 1300 - 1700	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3110	African Americans in Slavery and Freedom, 1620 - 1865	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3113	Stuart Rule and Revolution (1603 - 1689)	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3214	The Decline and Fall of the French Old Regime (1715 - 1789)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3222	French Fancy and Cool Britannia? Franco-British Cultural Relations from Seven Years' War to French Revolution	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3263	British Culture in the Eighteenth Century	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3280	Persia in the 18th Century - 1722-1834 (Age of the Warlords)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3302	Imperial Russia 1815 - 1917	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3314	History of Environmentalism: The Politics of Nature in the Western World (c. 1800 to Present)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3318	Revolutions, Nationalism and Reaction: 1848-1849 in the German Lands	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3319	Media and Politics in Modern Britain, 1850-1939	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3320	Imperialism and Nationalism: The British Empire in India 1857 - 1947	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3329	The Kaiser: Aspects of Emperor Wilhelm II, 1859 - 1941	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3334	Nature and Society in Victorian Britain	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3335	The Japanese Empire and its Aftermath (1873 - 1952)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3338	Disease and the Environment (c. 1500 - 2000)	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3346	Politics, Culture and Society in the French Revolution (1789-1815)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3351	Doing and Practicing Transnational and Global History in the Late Modern World	30	2	http://www.st-andrews.ac.uk/history/infoug/ugtimetable.html
MO3353	The Rise of the Nation State in Central Europe (1810-1923)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3354	Rethinking the World in East Asia 1850s - 1990s	30	2	http://www.st-andrews.ac.uk/history/infoug/ugtimetable.html

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Modern History (continued)				
MO3365	Nationalism and Unionism in Modern Scotland	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3385	Modern Iran from 1834-1941: Enlightenment, Nationalism & Revolution	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3406	The Soviet Union	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3419	The French 'Civil Wars' of the Twentieth Century	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3422	The United States in Depression and War (1929 - 1945)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3425	Stalinism, Nazism and Central Europe (1912-1941)	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3461	Britain in the 1920s and 1930s: Aspects of everyday life	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3502	War and Welfare: Britain 1939 - 1951	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3508	America and Vietnam	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3513	Heavenly Decade: The 1960s	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3523	Postcolonial Europe: empire and its legacies in Western Europe since 1945	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3524	Popular Music, Culture and Society: The United States and Britain, 1955-1980	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3561	Thatcherism, the 'new right', and the remaking of British politics, c.1940-1997	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3581	From World War 2 to Thermidor: Iran in the Short 20th Century	30	2	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO3582	Revolution and Resistance in the 20th Century Middle East	30	1	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4805	The Scottish Enlightenment	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4850	Britain and Iran in the Modern Era	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4853	Under a Bright Red Star: Iranian Marxism in the 20th Century	60	Whole Year	Wednesday 11:00 am
MO4910	'The German Hercules' - Martin Luther and Germany, 1517 - 2000	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4912	French Absolutism: Richelieu to Louis XIV	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4932	Russians Making History (1755 - 2000)	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4936	Bismarck: Biography - Politics - Mythology	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4937	Charles Darwin and the Politics of Progress	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4938	Progress and Reform: The United States (1880 - 1930)	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4939	Civil War and Dictatorship in Spain, 1936 - 1959	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4940	Britain in the Era of the Great War	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4949	Debating Indian Futures: From Empire to	60	Whole	See http://www.st-

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	Republic (1917 - 1950)		Year	andrews.ac.uk/history/infoug/ugtimetable
MO4952	The Kennedy Years	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4959	British Cinema History (1920 - 1960)	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4962	France and Africa in the Twentieth Century: Colonialism, Anti-colonialism, Post-colonialism	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4967	Elizabethan England: Politics, Religion, and Personalities (1558 - 1603)	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4970	Revolutions and Empires (1776 - 1848)	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4971	The City in East and Southeast Asia c. 1850 - 1950	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4974	The British Town in the Long Eighteenth Century	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable
MO4975	Print, Progress and Public opinion. Towards a New History of Print Culture in Early Modern Europe	60	Whole Year	See http://www.st-andrews.ac.uk/history/infoug/ugtimetable

Modern Languages

ML3101	Modern Languages Integrated Year Abroad	60	Whole Year	n/a
ML4794	Joint Dissertation (30cr)	30	Whole Year	To be arranged.

Music

MU3001	Concert Performance	30	2	To be arranged.
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Neuroscience

PN3312	Pharmacology	20	2	Lectures: 11.00 am Mon, Tue and Wed Practicals: to be arranged.
PN3313	Neuroscience	20	1	Lectures: 12.00 am Mon, Tue and Wed Practicals: to be arranged.
PN3321	Advanced Critical Analysis Reading Party	10	Summer	To be arranged
PN4230	Neurodegeneration and Aging	15	1	Seminars: 3.00 pm - 4.00 Mon, 1.00 pm - 2.00 pm Thu (weeks 1-5); Seminars: 12.00 pm - 2.00 pm Thu (weeks 7 and 9-11); Labs: 2.00 pm - 5.00 pm Tues, Wed (week 8)
PN4231	Neuromodulation	15	2	Lectures: 11.00 am - 12.00 noon Tue and 10.00 am - 11.00 am Fri. Practical to be arranged.
PN4234	Synaptic Transmission	15	2	Lectures: 11.00 am - 12:30 pm Wed and 12.00 noon - 1.00 pm Fri. Practical to be arranged.
PN4235	Motoneurons: From Physiology to Pathology	15	1	Lectures : 2.00 pm - 3.00 pm Mon and 9.00 am - 10.30 am Fri. Practical to be arranged.
PN4299	Neuroscience Research Project	60	Whole Year	To be arranged with the supervisor.

Persian

PR3001	Higher Intermediate Persian 1	15	1	1.00 pm Mon and 4.00 pm Thu
PR3002	Higher Intermediate Persian 2	15	2	1.00 pm Mon and 4.00 pm Thu
PR3020	Key Texts in Modern Persian Literature	15	2	To be arranged.
PR3021	Modern Iran through Cinema	15	2	To be arranged.
PR3022	Modernity and Iranian Drama	15	1	To be arranged.
PR3023	Songs of Love and Revolution	15	1	Tuesday 1.00 pm to 3.00 pm
PR4001	Advanced Persian 1	15	1	4.00 pm Mon & 2.00 pm Thu
PR4002	Advanced Persian 2	15	2	4.00 pm Mon & 2.00 pm Thu

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Persian (continued)

PR4020	Introduction to Classical Persian Literature	15	2	To be arranged.
PR4021	Female Identity in Contemporary Iran	15	1	To be arranged.
PR4098	Short Dissertation on a Persian Topic	15	1 & 2	To be arranged.
PR4099	Long Dissertation on a Persian Topic	30	Whole Year	To be arranged.

Philosophy

PY3100	Reading Philosophy 1: Texts in Language, Logic, Mind, Epistemology, Metaphysics and Science	30	1	To be arranged.
PY3200	Reading Philosophy 2: Texts in Ethics, Metaethics, Religion, Aesthetics and Political Philosophy	30	2	To be arranged.
PY3999	Special Topic in Philosophy	15	2	To be arranged.
PY4607	Continental European Philosophy from Descartes to Leibniz	30	2	To be arranged.
PY4611	Classical Philosophy	30	2	To be arranged.
PY4614	Philosophy of Mind	30	2	To be arranged.
PY4618	Animals, Minds and Language	30	1	To be arranged.
PY4624	Philosophy of Art	30	2	To be arranged.
PY4634	Philosophy of Logic	30	2	To be arranged.
PY4639	Philosophy of Creativity	30	1	To be arranged.
PY4643	Philosophy of Law	30	2	To be arranged.
PY4644	Rousseau on Human Nature, Society, and Freedom	30	1	To be arranged.
PY4648	Conceptual Engineering and its Role in Philosophy	30	1	To be arranged.
PY4650	Philosophy, Feminism and Gender	30	1	To be arranged.
PY4652	The Philosophy of Human Rights	30	1	To be arranged.
PY4657	Philosophy of Economics	30	1	To be arranged.
PY4658	Timely Topics in Political Philosophy	30	2	To be arranged.
PY4698	Dissertation (Whole Year)	30	Whole Year	Not applicable.
PY4699	Dissertation in Philosophy	30	1 & 2	Not applicable.
PY4701	Philosophy and Pedagogy	15	1	Not applicable.
PY4794	Joint Dissertation (30cr)	30	1 & 2	To be arranged.

Physics

PH3007	Electromagnetism	15	2	9.05 am Mon even numbered weeks, 9.05 Tue, Thu, 15.05 Fri odd-numbered weeks (TBC)
PH3012	Thermal and Statistical Physics	15	2	12.00 noon odd Mon, Wed, Fri, 2.00 pm even Tue (TBC)
PH3014	Transferable Skills for Physicists	15	Whole Year	10.00 am Wed, occasional 10.00 am Fri (TBC)
PH3061	Quantum Mechanics 1	10	1	9.00 am Tue, Thu (TBC)
PH3062	Quantum Mechanics 2	10	2	9.00 am Wed, Fri (TBC)
PH3074	Electronics	15	1	9.00 am Mon, Wed, Fri, 11.00 am Fri lab (TBC)
PH3080	Computational Physics	10	1	One of Mon 2-4, Tue 2-4, Tue 4-6 and one of Thu 2-4, Thur 4-6, Fri 2-4 (TBC)
PH3081	Mathematics for Physicists	15	1	10.00 am Tue, Thu and even Mon, 2.00 pm odd Mon (TBC)
PH3082	Mathematics for Chemistry / Physics	20	1	10.00 am odd Mon, Tue, Thu, 2.00 pm odd Mon, 3.00 pm Mon, and two x 2 hrs on two of Mon, Tue, Thu, Fri afternoons (TBC)

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Physics (continued)				
PH3101	Physics Laboratory 1	15	2	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC)
PH4026	Signals and Information	15	2	11.00 am odd Mon, Wed, Fri, 2.00 pm even Mon (TBC)
PH4027	Optoelectronics and Nonlinear Optics	15	1	9.00 am Tue, Thu, 3.00 pm Fri (TBC)
PH4028	Advanced Quantum Mechanics	15	2	12.00 noon even Mon, Tue and Thu, 4 pm odd Fri (TBC)
PH4031	Fluids	15	2	11.00 am even Mon, Tue, Thu, 2.00 pm odd Tue (TBC)
PH4032	Special Relativity and Fields	15	1	3.00 pm Tue, 4.00 pm Tue, Fri (TBC)
PH4034	Laser Physics 1	15	1	9.00 am Mon, Wed, Fri (TBC)
PH4035	Principles of Optics	15	2	12.00 noon odd Mon, Wed, Fri, 3 pm even Tue (TBC)
PH4036	Physics of Music	15	1	12.00 noon Mon, Tue, Thu (TBC)
PH4038	Lagrangian and Hamiltonian Dynamics	15	2	10.00 am even Mon, Tue, Thu, 2.00 pm odd Fri (TBC)
PH4039	Introduction to Condensed Matter Physics	15	1	11.00 am Wed, Fri, 2.00 pm Fri
PH4040	Nuclear and Particle Physics with Advanced Skills	15	1	14.00 Tue, Noon Wed and Fri (all from week 4), 10.00 Wed, occasional 10.00 Fri (TBC)
PH4041	Atomic, Nuclear, and Particle Physics	15	1	2.00 pm Tue, 12.00 noon Wed and Fri (TBC)
PH4042	Concepts in Atomic Physics and Magnetic Resonance	15	2	9.00 am odd Mon, 2.00 pm even Tue, 9.00 am Wed and Fri 9.00 (TBC)
PH4043	Studies in Physics and Chemistry	5	2	To be arranged.
PH4044	Advanced Condensed Matter Physics	15	2	To be arranged.
PH4045	Biomedical imaging and sensing	15	2	To be arranged
PH4105	Physics Laboratory 2	15	1	2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC)
PH4111	Physics Project (BSc)	30	Whole Year	Half time in second semester, plus some preparation in first semester.
PH5002	Foundations of Quantum Mechanics	15	1	2.00 pm Mon, Tue, Fri (TBC)
PH5003	Group Theory	15	1	12.00 noon Wed, Fri, 3.00 pm Mon (TBC)
PH5004	Quantum Field Theory	15	1	2.00 pm Thu, 3.00 pm Tue, Fri (TBC)
PH5005	Laser Physics 2	15	1	10.00 am Mon, Tue, Wed, Thu (TBC)
PH5011	General Relativity	15	1	9.00 am Wed, Fri, 3.00 pm Thu (TBC)
PH5012	Quantum Optics	15	1	11.00 am Mon, 11.00 am Tue, Thu (TBC)
PH5015	Applications of Quantum Physics	15	1	12.00 noon Mon, Tue, Thu (TBC)
PH5016	Biophotonics	15	1	9.00 am Mon, Wed, Fri (TBC)
PH5023	Monte Carlo Radiation Transport Techniques	15	1	11.00 am Wed, 2.00 pm Tue, Fri (TBC)
PH5024	Modern Topics in Condensed Matter Physics	15	1	10.00 am Tue, Wed, Thu (TBC)
PH5025	Nanophotonics	15	1	To be arranged.
PH5101	Physics Project (MPhys)	60	Whole Year	Full time in second semester, following some work in first.
PH5103	Project in Theoretical Physics (60)	60	Whole Year	Full time for second semester following some work in first.
PH5104	Project in Theoretical Physics (Mathematics and Theoretical Physics Students)	65	Whole Year	Not applicable.

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Module Code	Module Title	Credits	Semester	Planned Timetable
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Psychology				
PS3021	Research Design and Analysis 1	15	1	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: one of Mon 1-2, 2-3, 3-4, 4-5
PS3022	Research Design and Analysis 2	15	2	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: two of Mon 1-2, 2-3, 3-4, 4-5
PS3031	Conceptual Issues and Theoretical Perspectives	10	1	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 1-5 only)
PS3032	Assessment in Clinical Psychology	10	2	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 6-10 only).
PS3033	Developmental Psychology	10	2	Lectures: 9.00 am - 11.00 am Thu. 1.5-hour practical: Thu, either 2-3:30 or 3:30-5. (Module runs in weeks 1 - 5 only)
PS3034	Social Psychology	10	2	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only)
PS3035	Cognitive and Behavioural Neuroscience	10	1	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only).
PS3036	Evolutionary and Comparative Psychology	10	2	Lectures: 9.00 am - 11.00 am Tue. 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 6 - 10 only).
PS3037	Perception	10	1	Lectures: 9.00 am - 11.00 am Tue. Four 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 7 - 11 only).
PS3038	Cognition	10	1	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 7 - 11 only).
PS4040	Psychology Review	10	Whole Year	Not applicable.
PS4050	Psychology Project (30)	30	Whole Year	Not applicable.
PS4060	Review Essay	15	Whole Year	To be arranged.
PS4069	Group Behaviour	15	2	To be arranged.
PS4071	Behavioural Neuroscience	15	1	11.00 am - 1.00 pm Thu
PS4074	Cognitive Psychology and the Emotional Disorders	15	1	9.00 am - 11.00 am Mon
PS4079	Sex Differences and Gender Development	15	2	11.00 am - 1.00 pm Fri
PS4083	Psychology of Music	15	1	11.00 am - 1.00 pm Mon
PS4084	Psychology of Art: Aesthetics and individual differences in visual function	15	2	11.00 am - 1.00 pm Wed
PS4085	Evolution and Development of Social and Technical Intelligence	15	1	11.00 am - 1.00 pm Fri
PS4086	Origins and Evolution of Mind Reading (Theory of Mind)	15	2	9.00 am - 11.00 am Fri
PS4089	Neural Basis of Episodic Memory	15	1	11.00 am - 1.00 pm Tue
PS4090	Face Perception and Human Attraction	15	2	9.00 am - 11.00 am Wed
PS4091	Computer-aided Research	15	1	9.00 am - 11.00 am Tue
PS4093	The Psychology of Dementia	15	1	11.00 am - 1.00 pm Wed
PS4094	Communicating Psychology and Neuroscience	15	2	11.00 am - 1.00 pm Mon
PS4095	Psychopathology	15	2	9.00 am - 11.00 am Mon

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Psychology (continued)

PS4096	Mechanisms of Behaviour: Integrating Psychological and Neuroscience Perspectives	15	2	12.00 noon - 2.00 pm Tue
PS4097	Research Methods in Cognitive Neuroscience	15	2	9.00 am - 11.00 am Tue
PS4100	The Psychology of Terrorism	15	1	9.00 am - 11.00 am Fri
PS4299	Psychology Project (60)	60	Whole Year	To be arranged with the supervisor.
PS4796	Joint Project (30cr)	30	1	To be arranged.
PS4796	Joint Project (30cr)	30	2	To be arranged.
PS4797	Joint Project (60cr)	60	Whole Year	To be arranged.

Russian

RU3001	Advanced Russian Language 1, Part 1	15	1	To be arranged.
RU3002	Advanced Russian Language 1, Part 2	15	2	To be arranged.
RU3005	Advanced Russian Translation 1	15	1	To be arranged.
RU3021	Russian Poetry of the Golden Age	15	2	To be arranged.
RU3022	The Nineteenth-Century Russian Novel	15	1	To be arranged.
RU3026	Russian Modernist Fiction 1900 - 1940	15	1	4.00 pm Tue
RU3030	A Special Russian Author of the Twentieth Century	15	2	To be arranged.
RU3043	Theatre and Performance in Twentieth-Century Russia	15	1	To be arranged.
RU3101	Russian Integrated Year Abroad	60	Whole Year	Please Contact Department
RU3110	Advanced Russian Translation 2	15	2	To be arranged.
RU4101	Advanced Russian Language 2	15	1	To be arranged.
RU4104	Russian Communication Skills	15	2	To be arranged.
RU4144	Russian Crime Fiction	15	2	To be arranged.
RU4151	The City in Soviet and Russian Cinema	15	2	To be arranged.
RU4152	Vladimir Nabokov	15	1	To be arranged.
RU4198	Dissertation on a Russian Topic	15	1 & 2	Please Contact Department
RU4199	Long Dissertation on a Russian Topic	30	Whole Year	Please Contact Department

Social Anthropology

SA3032	Regional Ethnography 1	30	1	1.00 pm Mon
SA3033	Regional Ethnography II	30	2	To be arranged
SA3048	The Anthropology of Art	30	1	To be arranged
SA3055	Anthropology and History	30	1	To be arranged.
SA3057	Sex and Gender	30	2	To be arranged.
SA3059	Colonial and Post-Colonial Representations	30	2	To be arranged.
SA3060	Contemporary Issues in Social Anthropology	30	1	To be arranged.
SA3064	The Anthropology of Migration	30	1	To be arranged.

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Social Anthropology (continued)

SA3506	Methods in Social Anthropology	30	2	To be arranged.
SA4059	Living with Material Culture	30	1	To be arranged.
SA4061	Contagion: Anthropology and Global Health	30	1	To be arranged
SA4062	Anthropology of Justice	30	2	Lecture - Mon, Wed - time tbc Practical - Friday 2pm
SA4098	Library-based Dissertation	30	Whole Year	To be arranged.
SA4099	Primary Research-based Dissertation	30	Whole Year	To be arranged.
SA4857	West Africa	30	2	To be arranged.
SA4864	Melanesian Anthropology	30	2	To be arranged.

Spanish

SP3001	Spanish Language 1	15	1	9.00 am Thu, plus 1 practical to be arranged on Tue
SP3002	Spanish Language 2	15	2	9.00 am Thu, plus 1 practical to be arranged on Tue
SP3006	Literary Translation	15	2	9.00 am - 10.30 am Wed
SP3011	History of the Spanish Language	15	1	2.00 pm - 3.30 pm Fri
SP3101	Spanish Integrated Year Abroad	60	Whole Year	Please Contact Department
SP3122	Spanish American Literature 2	15	2	9.00 am - 10.30 am Wed
SP3145	Post-1975 Writing in Spain 1	15	2	To be arranged.
SP3147	The Art of Subversion in Post-War Spain (1939-1975)	15	1	11.00 am- 12.30 pm Wednesday.
SP3157	Autobiographical Writing in Twentieth-Century Spain	15	2	To be arranged.
SP3158	Representations of the Urban: 20th Century Buenos Aires	15	1	null
SP3160	Facing the New: Spanish Literature and Society (1888 - 1918)	15	1	2.00 pm - 3.30 pm Fri
SP3163	Tales of the Nation	15	2	2.00 pm - 3.30 pm Tue.
SP3222	Love and Loss	15	1	2.00 pm - 3.30 pm Thu
SP4003	Spanish Language 3	15	1	9.00 am Thu, plus 1 practical to be arranged on Tue
SP4004	Spanish Language 4: Communication Skills	15	2	9.00 am Thu, plus 1 practical to be arranged on Tue
SP4012	Linguistic Study of the Spanish Language	15	2	2.00 pm - 3.30 pm Fri
SP4013	Culture and Conflict: Representing the Spanish Civil War	15	2	2.00 pm - 3.30 pm Thu.
SP4015	Action Heroes and Anti-heroes in Early-Modern Spain	15	1	9.30 am - 11.00 am Tue
SP4017	(R)evolutions in Early Modern Love Lyric: Perilous, Provocative, Parodic	15	1	11.00 am - 12.30 pm Wed
SP4098	Dissertation on a Spanish Topic	15	2	To be arranged.

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Spanish (continued)

SP4098	Dissertation on a Spanish Topic	15	1	To be arranged.
SP4099	Long Dissertation on a Spanish Topic	30	Whole Year	To be arranged.
SP4223	History and Culture in Spanish Texts	15	1	To be arranged.
SP4224	Reality and Illusion	15	2	9.30 am - 11.00 am Tue

Sustainable Development

SD3100	Methodologies for Sustainable Development	30	2	Lectures - 14:.00 - 17:00 Tuesdays
SD3111	Home & Energy Geographies	30	1	10:00am - 1:00pm Thursdays (lectures)
SD4111	Governance for Sustainability	30	1	10:00am - 1:00pm Friday
SD4113	Environment and Development Economics	30	1	10:00 - 12:00 Tuesday
SD4114	Society, Sustainable Consumption and Implementing Change	30	2	Lectures - Thursday 10:00 - 11:00 Practicals - Thursday 11:00 - 13:00
SD4297	Dissertation in Sustainable Development	30	2	To be arranged.
SD4299	Dissertation in Sustainable Development	60	Whole Year	To be arranged.

Sustainable Geography

SG4221	Review Essay	20	1	4.00 pm - 6.00 pm Thu
SG4222	Advanced Qualitative Analysis	20	1	2.00 pm - 4.00 pm Thu
SG4223	Advanced Quantitative Analysis	20	1	Lectures - 1.00 pm - 3.00 pm Tue Practicals - 3.00 pm - 5.00 pm Tue
SG4224	Advanced Topics in Physical Sciences	20	1	Lectures - 2.00 pm - 3.00 pm Thurs Practicals - 3.00 pm - 5.00 pm Thurs
SG4228	Advanced Topics in Geographic Information Science (GISci)	20	1	Lectures - 1.00 pm - 3.00 pm Mon Practicals - 3.00 pm - 5.00 pm Mon

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