

2016 - 2017

1000 & 2000 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 1000 & 2000 Level Module Catalogue

The main body of the Catalogue is presented in Sections relating to the Academic Schools in the University. In addition, there are sections for Interdisciplinary Modules (section 22), English Language Teaching Modules (section 23), Lifelong & Flexible Learning Programme Modules (section 24) and Distance Learning Modules (section 25).

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 also Level (below) and

<http://scqf.org.uk/wp-content/uploads/2014/03/SCQF-Revised-Level-Descriptors-Aug-2012-FINAL-web-version1.pdf>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

School of Art History

Art History (AH) modules

AH1001 The Art of the Renaissance in Italy and Northern Europe				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu (lectures)			
<p>This 20 credit module provides a survey of painting, sculpture and architecture in Italy and northern Europe from c. 1280 to c.1580. It traces a chronological development through the work of major personalities from Giotto at the beginning of the fourteenth century, to Durer, Michelangelo and Titian in the sixteenth century.</p> <p>Attention will also be paid to the issues relating to the wider artistic situation of the Late Gothic and Renaissance periods, including those of patronage, iconography, technique and types of commission.</p>				
Programme module type:	Either AH1001 or AH1003 is compulsory for Art History			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial (x 11 weeks), tutor's optional office hour(x 12 weeks), field trip to Edinburgh - 8 hours			
	Scheduled learning: 64 hours		Guided independent study: 136 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Luxford			
Lecturer(s)/Tutor(s):	Team taught			

AH1003 European Art and Architecture in the Seventeenth and Eighteenth Centuries				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu (lectures)			
<p>This module provides an introduction to European art and architecture of the seventeenth and eighteenth centuries. It begins with a study of Baroque art and architecture in Italy, concentrating upon Gianlorenzo Bernini, Caravaggio and the Carracci. From Italy the focus shifts to Spain to introduce Diego Velazquez and his contemporaries. Next there is a series of lectures devoted to art and architecture in France. A further series of lectures treats seventeenth-century painting in Flanders and Holland. These emphasise Peter Paul Rubens, Anthony van Dyck, Rembrandt van Rijn and Jan Vermeer. Subsequent lectures introduce eighteenth-century painting in Italy and France. Much of the later part of the module focuses on art and architecture in Britain.</p>				
Programme module type:	Either AH1001 or AH1003 is compulsory for Art History			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial (x 11 weeks), tutor's optional office hour(x 12 weeks), field trip to Edinburgh - 8 hours			
	Scheduled learning: 64 hours		Guided independent study: 136 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Luxford			
Lecturer(s)/Tutor(s):	Team taught			

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AH2001 History and Theory of European Art, Architecture and Design from the French Revolution to Vienna 1900

SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu (lectures)			
<p>The module provides students with a systematic understanding of the most significant art historical developments in nineteenth-century Europe. It aims to facilitate analytic and interpretative skill using available documentation, and to educate students in the study of visual objects and material history. The module provides a close study of the most significant individual artists, and proceeds to look generally at the emergence of avant-garde movements. There is a theoretical component which provides the broader context for these developments.</p>				
Programme module type:	Compulsory for Art History			
Pre-requisite(s):	Either AH1001 or AH1003			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial (x 11 weeks), tutor's optional office hour (x 12 weeks), field trip to Edinburgh - 8 hours			
	Scheduled learning: 64 hours		Guided independent study: 136 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Kallestrup			
Lecturer(s)/Tutor(s):	Team taught			

AH2002 Art, Culture and Politics, from 1900 to Now

SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu (lectures)			
<p>This module offers a survey of some of the most compelling episodes in twentieth-century art, including Cubism, Abstract Expressionism, and Postmodernism. International in focus, lectures will address how artists, architects, photographers and designers have responded to the increasingly industrialised and face-paced nature of modern experience. Students will also explore how the century's major political and social upheavals led to a constant re-evaluation of what might be expected of art. Each week will be devoted to a specific theme, such as 'myths of modernism', 'the metropolis', 'Post-war crisis', or 'globalisation'.</p>				
Programme module type:	Compulsory for Art History			
Pre-requisite(s):	Either AH1001 or AH1003			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial (x 11 weeks), tutor's optional office hour (x 12 weeks), field trip to Edinburgh - 8 hours			
	Scheduled learning: 64 hours		Guided independent study: 136 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%			

School of Biology

Biology (BL) modules

BL1101 Biology 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am; Practical classes one per week 2.00 - 5.00 pm Mon, Tue, or Wed			
<p>This module is an introduction to molecular and cellular biology. It covers cell diversity and the origins of life, cellular structures and fundamental processes. The central dogma of molecular biology is investigated through the examination of the structure and function of DNA, RNA and proteins, and how this knowledge led to modern developments in biotechnology. The final section of the module gives an introduction into molecular and population genetics with an emphasis on the process of evolution. Throughout the module the lecture material is complemented by extensive practical classes where biological laboratory techniques are taught and practiced through, for example, microscopy, DNA isolation, dissection and thin layer chromatography.</p>				
Programme module type:	Compulsory for all Biology Degree Programmes			
Required for:	BL2300 - BL2310			
Learning and teaching methods and delivery:	Weekly contact: 5 x 1-hour lectures and 1 x 3-hour practical (x 11 weeks).			
	Scheduled learning: 88 hours		Guided independent study: 112 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 65%, Practical Examinations = 0%, Coursework = 35%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module Co-ordinator:	Dr A Smith			
Lecturer(s)/Tutor(s):	Dr A Smith, Dr W Heitler, Dr R Ramsay, Dr M Ritchie, Prof M Ryan, Dr J Sleeman, Dr D Jackson, Dr V Dietrich-Bischoff, Dr S Young, Dr M Bischoff, Dr H Ferreira, Dr J Nairn, Dr U Schwartz-Linek			

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BL1102 Biology 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am, Practical classes one per week 2.00 - 5.00 pm Mon, Tue, or Wed			
<p>This module provides an introduction to the diversity of life on Earth and will address key elements of organismal and ecological aspects of life. The module is divided into several sections beginning with the classification of life and an introduction to the kingdoms Monera, Fungi and Protista. Photosynthesis, respiration and the evolution and diversity of plants will be studied. Students will then look at the diversity of animals in the sea and the movement of some groups onto land. The module will also provide an introduction to animal behaviour and developmental biology, before finishing off by introducing ecology and the various factors promoting and threatening biodiversity. Throughout the module the lecture material is complemented by extensive practical classes introducing a variety of fieldwork and laboratory techniques.</p>				
Programme module type:	Compulsory for all Biology Degree Programmes			
Required for:	BL2300 - BL2310			
Learning and teaching methods and delivery:	Weekly contact: 5 x 1-hour lectures (x 11 weeks) and 1 x 3-hour practical (x 8 weeks)			
	Scheduled learning: 79 hours		Guided independent study: 121 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 7%, Coursework = 43%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module Co-ordinator:	Dr I Matthews			
Lecturer(s)/Tutor(s):	Dr D Ferrier, Dr W Heitler, Dr I Matthews, Dr C Peddie, Dr G Miles, Prof S Hubbard, Prof T Meagher, Dr P Miller, Prof R Randall, Dr I Somorjai, Prof M White			

BL2300 Research Methods in Biology				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 12.00 noon Tue, Thu (odd weeks) 12.00 noon Wed, Fri (even weeks) Practical classes: 2.00 - 5.00 pm Wed, Thu or Fri (weeks 2, 4, 6, 7, 8, 10)			
<p>This module will help students develop essential academic and transferable skills, with major emphasis on problem solving. This will be achieved through a combination of interactive lectures, independent data-handling workshops and group work on a mini research project. The module will start with an introduction to the scientific method, experimental design, understanding and presenting data. Students will then learn various statistical tests using a code-based statistical software and build their confidence in independent data-handling workshops. Regular mathematics for biologists classes will allow students to practise manipulating equations, performing laboratory calculations etc. A mini project on which the students work in small groups will help them apply the principles learned. The module will also cover scientific essay writing, record keeping and good laboratory practice.</p>				
Programme module type:	Compulsory for all single honours Biology degrees Compulsory for Biology and Geology Joint Honours degree Optional for joint honours Biology degrees.			
Pre-requisite(s):	BL1101 and BL1102	Required for:	BL3000, BL3320	
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lecture (x 10 weeks), 1 c 3-hour practical (x 6 weeks)			
	Scheduled learning: 38 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:	Alternative assessment to the same weighting as the failed item of assessment			
Module Co-ordinator:	Dr V Dietrich-Bischoff			
Lecturer(s)/Tutor(s):	Team taught			

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BL2301 Cell Biology			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 9.00 am Mon, Tue, Wed (odd weeks) 9.00 am Mon, Tue (even weeks) Practicals: 2.00 pm -5.00 pm Mon or Tue (weeks 2, 4, 6, 8 & 10)		
The module will introduce the concept of 'a cell', moving on to discuss different types of prokaryotic and eukaryotic cell. The structure and function of a variety of sub-cellular compartments will be examined. The diversity of different cell types within multicellular organisms will be highlighted, together with an overview of how this diversity is achieved.			
Programme module type:	Compulsory for Cell Biology, Biomolecular Sciences and Neuroscience Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2101
Required for:	BL3303, BL3311, BL3315, BL3322		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lecture (even weeks) 3 x 1-hour lecture (odd weeks), 3-hour practical classes (x 5 weeks)		
	Scheduled learning: 39 hours	Guided independent study: 111 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% (if Exam failed) Existing Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Dr J Sleeman		
Lecturer(s)/Tutor(s):	Team taught		

BL2302 Molecular Biology			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 9.00 am Thu, Fri (odd weeks) 9.00 am Wed, Thu, Fri (even weeks) Practicals: 2.00 pm - 5.00 pm Mon or Tue (weeks 3, 5, 7, 9 & 11)		
Molecular biology is an essential tool within modern biology, widely used in biochemistry, cell biology and ecology. This module will provide an introduction to modern molecular biology. Lectures will cover fundamental biological processes such as transcription, translation, DNA replication and repair - as well as touch on the genomics revolution and how this has influenced the field. These concepts will be reinforced through laboratory practical classes where students will develop their practical skills and be exposed to the use of basic bioinformatics resources to analyse and interpret data.			
Programme module type:	Compulsory for Biochemistry, Molecular Biology, Cell Biology and Biomolecular Sciences single honours degrees and MBiochem integrated masters degree. Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2104
Required for:	BL3301, BL3302, BL3310, BL3315, BL3322		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour in even weeks and 2 x 1-hour in odd weeks, 3-hour practical (x 5 weeks)		
	Scheduled learning: 39 hours	Guided independent study: 111 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Dr H Ferreira		
Lecturer(s)/Tutor(s):	Team taught		

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BL2303 Evolutionary Biology			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 11.00 am Thu, Fri (odd weeks) 11.00 am Wed, Thu, Fri (even weeks) Practicals: 2.00 -5.00 pm Thu or Fri (weeks 2, 4, 6, 8 & 10)		
Evolution is a fundamentally important component of our understanding of all biological phenomena, from molecular to ecosystem scales. This module will give an overview of the history and major principles of modern evolutionary biology, aimed at contemporary biologists of all backgrounds.			
Programme module type:	Compulsory for Behavioural Biology, Ecology & Conservation, Evolutionary Biology, Zoology single honours degrees, Biology and Geology joint degree and MBiol integrated masters degree. Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2105
Required for:	BL3307, BL3309, BL3319		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour in even weeks and 2 x 1-hour in odd weeks, 3-hour practical (x 5 weeks)		
	Scheduled learning: 39 hours	Guided independent study: 111 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% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Prof M G Ritchie		
Lecturer(s)/Tutor(s):	Team taught		

BL2304 Invertebrate Zoology			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 11.00 am Mon, Tue, Wed (odd weeks) 11.00 am Mon, Tue (even weeks) Practicals: 2.00 -5.00 pm Thu or Fri (weeks 3, 5, 7, 9 & 11)		
<p>The vast majority of animals are invertebrates - they do not have backbones. This module surveys the major invertebrate groups, emphasizing the diversity of body plans while demonstrating how the common functional requirements such as feeding, reproduction, respiration and excretion are achieved. The module starts with the simplest animals such as sponges and jellyfish, and considers how these primitive animals may have arisen from non-animal ancestors. It continues with a description of the several groups of worms, and the molluscs and arthropods. The last major group discussed are the echinoderms, which are close invertebrate relatives to vertebrate animals such as ourselves. The economic, social, and scientific impact that invertebrates have on human society is identified. The evolutionary relations between the various groups is the common thread that binds this diversity into a coherent story. A series of practical exercises reinforces and complements the lecture component of this module.</p>			
Programme module type:	Compulsory for Zoology Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2102
Required for:	BL3309, BL3315, BL3316, BL3318, BL3323		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour in even weeks and 3 x 1-hour in odd weeks, 3-hour practical (x 5 weeks) 2 hours of seminars in total.		
	Scheduled learning: 39 hours	Guided independent study: 111 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% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Dr W J Heitler		
Lecturer(s)/Tutor(s):	Team taught		

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BL2305 Cell Systems			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 9.00 am Mon, Tue, Wed (odd weeks) 9.00 am Mon, Tue (even weeks) Practicals: 2.00 pm - 5.00 pm Thu or Fri (weeks 2, 4, 6, 8 & 10)		
Cells are often considered to be the fundamental unit of life. This module will discuss how cells interact with one another to form complex tissues and organisms. You will consider, the structure-function relationship of a variety of cell types, including those involved in forming muscles, neuronal networks, blood and immunity and infectious diseases. The mechanisms by which cells communicate in order to mediate the complex physiology of an organism will be discussed and you will consider how disruption of these cell systems can lead to disease states.			
Programme module type:	Compulsory for Cell Biology and Neuroscience single honours degrees. Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2101
Required for:	BL3303		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour in even weeks and 3 x 1-hour in odd weeks, 3-hour practical (x 5 weeks)		
	Scheduled learning: 39 hours	Guided independent study: 111 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% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Dr G Prescott		
Lecturer(s)/Tutor(s):	Team taught		

BL2306 Biochemistry				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 9.00 am Thu, Fri (odd weeks), 9.00 am Wed, Thu, Fri (even weeks) Practicals: 2.00 pm - 5.00 pm Mon or Tue (weeks 1, 3, 5, 7, 9 & 11)			
Due to recent technological developments, metabolism and its regulation has re-emerged as an important area of Biology. This module will examine major biological macromolecules, the common motifs which occur in metabolic reactions, explore the properties of enzymes catalysing these reactions and consider the approaches to characterise the small molecule complement (metabolites) of biological systems. A number of central metabolic pathways and their control will be studied in detail, alongside examples of their importance in disease and recent metabolomic studies.				
Programme module type:	Compulsory for Biochemistry, Molecular Biology, Biomolecular Sciences single honours degrees and MBiochem integrated Master's degree Optional for all other Biology degrees where timetabling allows.			
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2104	
Required for:	BL3301, BL3302, BL3303, BL3310, BL3322			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour in even weeks and 2 x 1-hour in odd weeks, 3-hour practical (x 6 weeks)			
	Scheduled learning: 42 hours		Guided independent study: 108 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% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)			
Module Co-ordinator:	Dr J Nairn			
Lecturer(s)/Tutor(s):	Team taught			

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BL2307 Ecology			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 11.00 am Thu, Fri (odd weeks) 11.00 am Wed, Thu, Fri (even weeks) Practicals: 2.00 pm - 5.00 pm Thu or Fri (weeks 2, 4, 6, 8 & 10)		
<p>This module introduces basic concepts in population and community ecology and how they relate to biodiversity. It provides an understanding of fundamental ecological concepts including population regulation, intra- and inter-specific competition, species niche as well as taxonomic and functional diversity. This module is suitable for all Biologists and environmental scientists. Although it is an introductory module, it will cover the latest developments in the field of ecology.</p>			
Programme module type:	Compulsory for Behavioural Biology, Ecology & Conservation, Evolutionary Biology and Marine Biology single honours degrees and MBiol and MMarBiol integrated Masters degrees and Biology and Geology Joint Honours Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2105
Required for:	BL3000, BL3308, BL3309, BL3316, BL3318, BL3319		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour in even weeks and 2 x 1-hour in odd weeks, 3-hour practical (x 5 weeks)		
	Scheduled learning: 39 hours	Guided independent study: 111 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% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Prof O Gaggiotti		
Lecturer(s)/Tutor(s):	Team taught		

BL2308 Vertebrate Zoology			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 11.00 am Mon, Tue, Wed (odd weeks) 11.00 am Mon, Tue (even weeks) Practicals: 2.00 pm - 5.00 pm Thu or Fri (weeks 1, 3, 5, 7, 9 & 11)		
<p>This module will explore the diversity of vertebrate animals, beginning with the closest relatives of vertebrates and the evolutionary origins of the group. A detailed look at the defining characteristics of the body plans and lifestyles of the key vertebrate groups will illustrate how they carry out basic animal functions in similar or different ways. This will be put in an evolutionary context to reveal the patterns and trends in the vertebrates as a whole, while also highlighting current phylogenetic controversies. The module will then explore some common themes across the key groups, starting with the developmental biology of some vertebrate model systems and the lessons we can learn from these. We will also see how the highly developed brains of vertebrates have allowed the evolution of astonishing sensory capacities and of complex behaviours, and how these are different (or not) from invertebrates.</p>			
Programme module type:	Compulsory for Behavioral Biology, Ecology & Conservation, Evolutionary Biology and Zoology single honours degrees and MBIol integrated master's degree Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2102
Required for:	BL3309, BL3315, BL3318, BL3323		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour in even weeks and 2 x 1-hour in odd weeks, 3-hour practical (x 6 weeks)		
	Scheduled learning: 42 hours	Guided independent study: 108 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% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Dr V Dietrich-Bischoff		
Lecturer(s)/Tutor(s):	Team taught		

Biology - 1000 & 2000 Level - 2016/7 - August 2016

BL2309 Applied Molecular Biology			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 10.00 am Thu, Fri (odd weeks) 10.00 am Wed, Thu, Fri (even weeks) Practicals: 2.00 - 5.00 pm Thu or Fri (weeks 2, 4, 6, 8 & 10)		
	Techniques in molecular biology represent a powerful box of tools that are used to address a wide variety of modern research questions across a broad range of biological disciplines including; ecology, biotechnology, cell biology, medicine, conservation biology, infectious disease, evolution, genetics and synthetic biology. Key molecular biology techniques will be introduced in the context of case studies that will provide examples of how molecular biology techniques are being used in cutting edge research to address real-life questions and problems that impact health, food security, the environment and the economy.		
Programme module type:	Compulsory for Biochemistry, Molecular Biology, Biomolecular Science single honours degrees and MBiochem integrated master's degree Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102		
Required for:	BL3301, BL3302, BL3303, BL3311		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour in even weeks and 2 x 1-hour in odd weeks, 3-hour practical (x 5 weeks)		
	Scheduled learning: 39 hours	Guided independent study: 111 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% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Dr C Adamson		
Lecturer(s)/Tutor(s):	Team taught		

BL2310 Comparative Physiology			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 12.00 noon Mon, Tue, (odd weeks) 12.00 noon Mon, Tue, Wed (even weeks) Practical classes: 2.00 - 5.00 pm Mon or Tue (weeks 3, 5, 7, 9, 11)		
<p>A comparative physiologist studies organisms to explore the origins and nature of physiological diversity. This module covers the principles of physiological adaptation in a range of animals, including examples from all major taxa and from all habitats. The specific topics and components include: (1) the physiological consequences of body size and scaling effects; (2) respiratory and circulatory systems in vertebrates and invertebrates; (3) thermal physiology; (4) water balance in aquatic and land animals; (5) the mammalian kidney and its functioning; (6) sensory systems in different environments; (7) neural signaling and vertebrate senses; (8) control systems & hormones and pheromones; and (9) immunity and the maintenance of physiological integrity.</p>			
Programme module type:	Compulsory for Zoology single honours degree Optional for all other Biology degrees where timetabling allows.		
Pre-requisite(s):	BL1101 and BL1102	Anti-requisite(s):	BL2106
Required for:	BL3000, BL3316, BL3318		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour in even weeks and 2 x 1-hour in odd weeks, 3-hour practical (x 5 weeks)		
	Scheduled learning: 39 hours	Guided independent study: 111 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% (if Exam failed) Existing 2-hour Written Examination = 50%, New Coursework = 50% (if Coursework failed) 2-hour Written Examination = 100% (if failed to achieve grade 7.0 or above in both CA and Exam)		
Module Co-ordinator:	Prof C Todd		
Lecturer(s)/Tutor(s):	Team taught		

School of Chemistry

Chemistry (CH) modules

CH1202 Introductory Chemistry for Second Year Direct Entry Students			
SCOTCAT Credits:	10	SCQF Level 7	Semester: 1
Academic year:	2016/7 & 2017/8		
Availability restrictions:	Only available to students entering Single Honours Chemistry programmes and Biomolecular Science at Level 2000		
Planned timetable:	9.00 am or 10.00 am		
This module provides an introduction to some of the fundamental aspects of Chemistry and is for students entering the Chemistry BSc and MChem courses directly into second year. The module will cover structure and bonding in inorganic chemistry, states of matter and an introduction to thermodynamics and the solid state in physical chemistry and bonding, stereochemistry and reaction mechanisms in organic chemistry.			
Programme module type:	Compulsory for second year entry to Biomolecular Science, Chemistry, Chemistry with Medicinal Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry and External Placement, Materials Chemistry, Materials Chemistry with External Placement, Chemical Sciences		
Pre-requisite(s):	Advanced Higher Chemistry at Grade A, or A-Level Chemistry at Grade A	Anti-requisite(s):	CH1401, CH1402, CH1601
Co-requisite(s):	CH2501	Required for:	CH2601, CH2603, CH2701
Learning and teaching methods and delivery:	Weekly contact: 3 lectures or tutorials. Students are also required to complete 3 x 3-hour practicals in Week 1 only, integrated within their CH2501 laboratory hours.		
	Scheduled learning: 30 hours	Guided independent study: 70 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%		
	As used by St Andrews: 1.5-hour Written Examination = 100%		
Re-Assessment pattern:	1.5-hour Written Examination = 100%		
Module Co-ordinator:	Dr J B O Mitchell		
Lecturer(s)/Tutor(s):	Prof P Lightfoot, Prof N J Westwood, Prof A D Smith, Dr R M J Goss, Dr J B O Mitchell, Dr T van Mourik, Prof D Philp		

Chemistry - 1000 & 2000 Level - 2016/7 - August 2016

CH1301 The Impact of Chemistry				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon			
This module explores the impact that chemistry has on all our lives and all aspects of society. Starting with the chemical origins of life in the primordial soup, it will explore fuel and energy, the great challenge of global warming, forensic chemistry, chemistry and the environment, and chemistry in food production.				
Programme module type:	Optional for all qualified students			
Pre-requisite(s):	Standard Grade or GCSE Chemistry (Students with no formal qualification in Chemistry may be admitted but should expect to undertake additional tutorial work and private study)			
Learning and teaching methods and delivery:	Weekly contact: 5 lectures (x 9 weeks) and 1 group project hour (x 1 week).			
	Scheduled learning: 46 hours		Guided independent study: 154 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 20%, Coursework = 10%			
	As used by St Andrews: 2-hour Written Examination = 70%, 15-minute Practical Examination = 20%, Coursework = 10%			
Re-Assessment pattern:	2-hour Written Examination = 70%, Existing 15-minute Practical Examination = 20%, Existing Coursework = 10%			
Module Co-ordinator:	Prof S E M Ashbrook			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Prof S E M Ashbrook, Dr P A Connor, Prof T K Smith, Prof J H Naismith, Prof J T S Irvine			

CH1401 Introductory Inorganic and Physical Chemistry				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 11.00 am, Practical classes: One per week 2.00 to 5.00 pm			
The module includes lectures on the origin of the elements, atoms and the Periodic Table, shapes and properties of molecules, chemistry of the elements, properties of solutions, thermochemistry, thermodynamics and kinetics.				
Programme module type:	Compulsory for Biomolecular Science, all Degrees involving Chemistry			
Pre-requisite(s):	Higher or A-Level Chemistry at Grade B or above	Anti-requisite(s):	CH1202	
Required for:	CH1402			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 1 x 3-hour afternoon practical.			
	Scheduled learning: 82 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	Prof P A Wright			
Lecturer(s)/Tutor(s):	Prof P A Wright, Prof R E Morris, Dr P Kilian			

CH1402 Inorganic and Physical Chemistry 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 10.00 am, Practical classes: One per week 2.00 to 5.00 pm			
The module includes lectures on bonding in simple molecules, inorganic solids, chemistry of the first row transition metals, properties of solids, states of matter and introductory spectroscopy.				
Programme module type:	Compulsory for all Degrees involving Chemistry (except Biomolecular Science)			
Pre-requisite(s):	CH1401 or Higher or A-Level Chemistry at Grade B or above	Anti-requisite(s):	CH1202	
Required for:	CH2701			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 1 x 3-hour afternoon practical.			
	Scheduled learning: 82 hours		Guided independent study: 118 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 5%, Coursework = 35%			
	As used by St Andrews: 2-hour Written Examination = 60%, 1-hour Practical Examination = 5%, Coursework = 35%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing 1-hour Practical Examination = 5%, Existing Coursework = 35%			
Module Co-ordinator:	Dr T van Mourik			
Lecturer(s)/Tutor(s):	Dr F D Morrison, Dr T van Mourik, Dr G Haehner, Prof P Lightfoot, Dr B E Bode, Prof R E Morris			

CH1601 Organic and Biological Chemistry 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 11.00 am, Practical classes: One per week 2.00 to 5.00 pm			
The module includes lectures on the structure, stereochemistry and nomenclature of simple organic compounds, fundamental organic reaction mechanisms, organic functional groups and their reactions, introductory bioorganic chemistry, and organic spectroscopy.				
Programme module type:	Compulsory for Biomolecular Science, all Degrees involving Chemistry (except Chemistry and Physics)			
Pre-requisite(s):	Higher or A-Level Chemistry at Grade B or above	Anti-requisite(s):	CH1202	
Required for:	CH2601, CH2603			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 1 x 3-hour afternoon practical.			
	Scheduled learning: 80 hours		Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 5%, Coursework = 35%			
	As used by St Andrews: 2-hour Written Examination = 60%, 1-hour Practical Examination = 5%, Coursework = 35%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing 1-hour Practical Examination = 5%, Existing Coursework = 35%			
Module Co-ordinator:	Dr A Smellie			
Lecturer(s)/Tutor(s):	Prof D Philp, Prof A D Smith, Dr R J M Goss			

Chemistry - 1000 & 2000 Level - 2016/7 - August 2016

CH2201 A First Course in Organic Chemistry				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available to non-graduating students only			
Planned timetable:	10.00 am			
This module is an introductory course in organic chemistry. It covers aspects of structure, bonding and stereochemistry in Organic Chemistry. The syllabus includes the chemistry of alkanes, simple cycloalkanes, alkenes and alkynes together with functional group chemistry, largely that of singly-bonded functional groups. The chemistry is discussed and rationalised with reference to reaction mechanisms. The lecture course is complemented by a laboratory course.				
Programme module type:	Non-graduating students only			
Anti-requisite(s):	CH1202, CH1601			
Learning and teaching methods and delivery:	Weekly contact: 3 - 4 lectures, 1 tutorial, 2 afternoon practical classes.			
	Scheduled learning: 87 hours		Guided independent study: 113 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%, 1-hour Practical Examination = 15%, Coursework = 25%			
Re-Assessment pattern:	2-hour Written Examination = 80%, Existing Coursework = 20%			
Module Co-ordinator:	Prof D Philp			
Lecturer(s)/Tutor(s):	Dr H Mitchell, Prof D Philp			

CH2501 Inorganic Chemistry 2				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 11.00 am, Practical classes: Two per week 2.00 to 5.00 pm			
The module includes lectures on metal complexes and organometallics, descriptive transition-metal chemistry, atmospheric chemistry, solid-state chemistry and descriptive main-group chemistry.				
Programme module type:	Compulsory for Biomolecular Sciences, all Degrees involving Chemistry			
Pre-requisite(s):	CH1402 or (CH1401 and CH1601) or admission to Single Honours Chemistry programmes or Biomolecular Science at Level 2000			
Co-requisite(s):	CH1202 for students entering Single Honours Chemistry programmes or Biomolecular Science at Level 2000			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 2 x 3-hour afternoon practicals.			
	Scheduled learning: 93 hours		Guided independent study: 207 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 5%, Coursework = 35%			
	As used by St Andrews: 3-hour Written Examination = 60%, 15-minute Practical Examination = 5%, Coursework = 35%			
Re-Assessment pattern:	3-hour Written Examination = 60%, Existing 15-minute Practical Examination = 5%, Existing Coursework = 35%			
Module Co-ordinator:	Dr E Zysman-Colman			
Lecturer(s)/Tutor(s):	Dr P Kilian, Prof P Lightfoot, Dr E Zysman-Colman			

CH2601 Organic Chemistry 2				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 12.00 noon, Practical classes: Two per week 2.00 to 5.00 pm			
The module includes lectures on carbon-carbon bond formation, interconversion of functional groups, aromatic and heteroaromatic reactivity, mechanistic biological chemistry and organic spectroscopy.				
Programme module type:	Compulsory for Biomolecular Science, Chemical Sciences, Chemistry, Chemistry with External Placement, Chemistry with Medicinal Chemistry, Chemistry with Medicinal Chemistry and External Placement, Materials Chemistry, Materials Chemistry with External Placement.			
Pre-requisite(s):	CH1601 or (CH1202 for students entering Single Honours Chemistry programmes or Biomolecular Science at Level 2000)			
Anti-requisite(s):	CH2603			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 2 x 3-hour afternoon practicals.			
	Scheduled learning: 115 hours		Guided independent study: 185 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 7%, Coursework = 33%			
	As used by St Andrews: 3-hour Written Examination = 60%, 1-hour Practical Examination = 7.5%, Coursework = 32.5%			
Re-Assessment pattern:	3-hour Written Examination = 60%, Existing 1-hour Practical Examination = 7.5%, Existing Coursework = 32.5%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr G J Florence, Prof J H Naismith, Dr M L Clarke, Dr R A Aitken			

CH2603 Organic Chemistry 2 (French)				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon on selected days according to the timetable for FR2022. Practical classes: Two per week 2.00 to 5.00 pm			
The module includes lectures on carbon-carbon bond formation, interconversion of functional groups, aromatic and heteroaromatic reactivity, mechanistic biological chemistry and organic spectroscopy.				
Programme module type:	Compulsory for Chemistry with French, Chemistry with French and External Placement			
Pre-requisite(s):	students entering Single Honours Chemistry programmes or Biomolecular Science at Level 2000)			
Anti-requisite(s):	CH2601	Co-requisite(s):	FR2022	
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 tutorial and 5 hours of practicals over 2 afternoons.			
	Scheduled learning: 76 hours		Guided independent study: 124 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%, 1-hour Practical Examination = 7%, Coursework = 33%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing 1-hour Practical Examination = 7%, Existing Coursework = 33%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr G J Florence, Prof J H Naismith, Dr M L Clarke, Dr R A Aitken			

Chemistry - 1000 & 2000 Level - 2016/7 - August 2016

CH2701 Physical Chemistry 2			
SCOTCAT Credits:	30	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 11.00 am, Practical classes: Two per week 2.00 to 5.00 pm		
The module includes lectures on quantum mechanics, thermodynamics and electrochemistry, kinetics, molecular spectroscopy and diffraction and mathematical tools for chemistry.			
Programme module type:	Compulsory for all degrees involving Chemistry (except Biomolecular Science)		
Pre-requisite(s):	CH1402 or (CH1202 for students entering Single Honours Chemistry programmes at Level 2000).		
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 2 x 3-hour afternoon practicals.		
	Scheduled learning: 106 hours	Guided independent study: 194 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 5%, Coursework = 35%		
	As used by St Andrews: 3-hour Written Examination = 60%, 1-hour Practical Examination = 5%, Coursework = 35%		
Re-Assessment pattern:	3-hour Written Examination = 60%, Existing 1-hour Practical Examination = 5%, Existing Coursework = 35%		
Module Co-ordinator:	Prof W Zhou		
Lecturer(s)/Tutor(s):	Prof C J Baddeley, Dr G Haehner, Prof P A Wright, Prof S E M Ashbrook, Dr R Schaub		

School of Classics

Ancient History (AN) modules

AN1001 Greek History to Alexander the Great			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 1
Academic year:	2016/7 & 2017/7		
Planned timetable:	11.00 am		
<p>This module provides a broad survey of ancient Greek History from the Archaic period (c. 800 BC) to the reign of Alexander the Great, and looks at the political development of Athens and Sparta, the impact of the Athenian Empire, and Greek culture in its heyday. Alexander's conquest of the east and his fascinating personality are studied in detail. All sources are read in translation. The module will give a solid background in Greek History, and will touch on wider issues of the nature of democracy and political power, Mediterranean anthropology, and the image of the Greeks that has been invented by modern scholars.</p>			
Programme module type:	Compulsory for all Ancient History Degrees. Optional for all Classical Studies Degrees, History		
Learning and teaching methods and delivery:	Weekly contact: 33 lectures and 6 tutorials across the semester.		
	Scheduled learning: 39 hours	Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Prof T Harrison		
Lecturer(s)/Tutor(s):	Team taught		

Classics - 1000 & 2000 Level - 2016/7 - August 2016

AN1002 Roman History from Foundation to Empire				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
<p>This module will consider the rise of Rome to world power from humble beginnings, examining the political, cultural and economic consequences of her imperialism. The module will consider in detail the social conditions which allowed Rome to sustain her enormous military burden, and the way that a multitude of factors came together to attack and finally destroy the Republican government of Rome. The module will conclude with an account of the first Roman emperor, Augustus. All sources will be in translation, and the module will give a solid background in Roman history of the Republic as well as touching on wider issues of legal and constitutional theory and cultural interaction.</p>				
Programme module type:	Compulsory for all Ancient History Degrees. Optional for all Classical Studies Degrees, History			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures (x 11 weeks) and 6 tutorials across the semester.			
	Scheduled learning: 39 hours		Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Coulston			
Lecturer(s)/Tutor(s):	Team taught			

AN2002 The Roman Empire				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm Tue and 4.00 pm Thu			
<p>The Roman empire, at its height in the first and second centuries AD, extended from Hadrian's Wall to beyond the Euphrates. This module studies the Roman empire with particular reference both to social, religious and economic changes as well as to political and military history and concludes with a brief look at the 'crisis' of the third century. Close attention is paid to original sources in translation.</p>				
Programme module type:	Optional for Ancient History, all Classical Studies Degrees, History			
Learning and teaching methods and delivery:	Weekly contact: 20 lectures and 8 tutorials across the semester.			
	Scheduled learning: 28 hours		Guided independent study: 172 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Lavan			
Lecturer(s)/Tutor(s):	Team taught			

AN2003 Mediterranean Communities				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm Tue and 4.00 pm Thu			
<p>This module deals with the human settlement and material culture of the entire Mediterranean World throughout classical antiquity. Over its long span - that covers much of the first millennium BCE and the first millennium CE - the Mediterranean was transformed from a world of tiny peasant and tribal communities first into a world of cities. Urbanism, diasporic colonisation and the appearance of complex societies and states were followed by regional hegemonies, then empires and finally a single world empire centred on Rome. This story is the rise and fall of classical civilisation and it emerges more clearly through material culture than any other evidence.</p>				
Programme module type:	Optional for Ancient History, all Classical Studies Degrees, History, Mediaeval History, Mediaeval History & Archaeology			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 8 tutorials across the semester.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Lewis			
Lecturer(s)/Tutor(s):	Team taught			

Classical Studies (CL) modules

CL1004 Myth and Community in Ancient Greek Literature and Culture				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon			
<p>This module explores some of the most dynamic literary and artistic achievements of archaic and classical Greek culture. Using a twin focus on myth and on ideas of community, the module ranges across Homeric epic, Athenian tragedy, Aristophanic comedy, and the writings of intellectuals; it studies the relationship between texts and images in the expression of cultural values; and it examines a series of major themes in Greek views of identity, morality, politics and religion. The module is meant both for student who intend to take Honours Classical Studies and for those who want a fascinating introduction to the poetry and art of the ancient Greek world. It is intended to be complemented by CL1005.</p>				
Programme module type:	Optional for all Classical Studies Degrees			
Learning and teaching methods and delivery:	Weekly contact: 32 lectures and 6 tutorials across the semester.			
	Scheduled learning: 38 hours		Guided independent study: 162 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Long			
Lecturer(s)/Tutor(s):	Team taught			

CL1005 Images of Augustan Rome				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon			
<p>This module studies a range of literary works that were written during the lifetime of the first emperor, Augustus, and that react in different ways to the new regime that he established. A central theme of the module is the development of the architecture and public art of the city of Rome during this period, and the different ways in which the city features in the literature of the time. The module is complementary to CL1004, and is meant both for students who intend to take Honours Classical Studies or Ancient History and for those who want a general survey of these aspects of Greco-Roman legacy.</p>				
Programme module type:	Optional for all Classical Studies Degrees			
Learning and teaching methods and delivery:	Weekly contact: 30 lectures and 6 tutorials across the semester.			
	Scheduled learning: 36 hours		Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Buckley			
Lecturer(s)/Tutor(s):	Team taught			

CL2003 Early Greek Poetry and Philosophy				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
Early Greece is the age of beautiful poetry and cutting-edge philosophy. The module explores the diversity of early Greek thought at the crossroads of poetry and philosophy, starting with Hesiod's struggle to re-order the world of gods and humans. We then consider the exciting literary and intellectual experiments of the successors of Hesiod and Homer, who saw poetry as a way of writing philosophy, exploring love and attacking enemies. Authors to be studied include Sappho, Theognis, Solon, Xenophanes and Empedocles. All texts will be studied in translation.				
Programme module type:	Optional for all Ancient History, Classical Studies Degrees			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 8 tutorials across the semester.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Addey			
Lecturer(s)/Tutor(s):	Team taught			

CL2004 Culture and Thought in the Late Roman Republic				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
From the seething passions of Catullus' poetry, through Lucretius' poetic treatise On the Nature of Things, to the stylish rhetoric of Cicero, the module aims to set the main literary texts of the Late Roman Republic against the broader backdrop of Roman art, culture and social life. All prescribed texts will be studied in translation.				
Programme module type:	Optional for all Ancient History, Classical Studies Degrees			
Learning and teaching methods and delivery:	Weekly contact: 30 lectures and 5 tutorials across the semester.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Team taught			

Greek (GK) modules

GK1001 Greek Language for Beginners				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am			
This module provides a thorough grounding in the Greek language for beginners or near beginners. It is suitable both for students who intend to take further Greek modules and for those who wish to acquire a basic knowledge of Greek, which is useful for the study of other subjects in the Faculty such as History or English.				
Programme module type:	Optional for all Classics, Classical Studies, Greek Degrees			
Anti-requisite(s):	GK1005	Required for:	DI2201, DI4613, DI4615, GK1002	
Learning and teaching methods and delivery:	Weekly contact: 2 classes in Orientation Week then 4 classes x 10 weeks.			
	Scheduled learning: 42 hours		Guided independent study: 158 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 = 50% (4 class tests)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Coderch			
Lecturer(s)/Tutor(s):	Dr J Coderch			

GK1002 Greek Literature for Beginners				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am			
This module is designed to follow on from GK1001. As such, GK1002 comprises language classes intended to supplement the topics covered in semester 1 and to prepare students for the challenge of reading and interpreting Greek literature.				
Programme module type:	Optional for all Classics, Classical Studies, Greek Degrees			
Pre-requisite(s):	GK1001, or equivalent knowledge of Greek.	Anti-requisite(s):	GK1006	
Required for:	GK2003, GK3021, GK3022			
Learning and teaching methods and delivery:	Weekly contact: 4 classes			
	Scheduled learning: 44 hours		Guided independent study: 156 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 = 50% (4 class tests)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Coderch			
Lecturer(s)/Tutor(s):	Dr J Coderch			

GK1005 Greek Language and Literature 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am			
This module is designed for students who have already taken ancient Greek to Higher, A level or equivalent standard. Set texts for this module will be studied in the original Greek prose and verse. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek. The overall aims of the module are to build up the confidence of students in reading and interpreting Greek literature in its historical and cultural context. Students will read one work of Greek prose and one work of Greek verse.				
Programme module type:	Optional for all Classical Studies, Classics, Greek Degrees			
Pre-requisite(s):	Higher or A-level Greek or equivalent.			
Anti-requisite(s):	GK1001	Required for:	GK1006	
Learning and teaching methods and delivery:	Weekly contact: 3 or 4 classes.			
	Scheduled learning: 34 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 = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Addey			
Lecturer(s)/Tutor(s):	Team taught			

Classics - 1000 & 2000 Level - 2016/7 - August 2016

GK1006 Greek Pastoral and Passion			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	10.00 am		
<p>This module, designed to follow on from GK1005, will introduce students to two new areas of Greek literature, between which there are interesting and important thematic connections: bucolic or pastoral poetry (the Idylls of Theocritus) and the romantic novel (Longus). Both these set texts will be studied in the original Greek. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p>			
Programme module type:	Optional for all Classical Studies, Classics, Greek Degrees		
Pre-requisite(s):	GK1005, Higher or A-level Greek or equivalent.		
Anti-requisite(s):	GK1002	Required for:	GK2001
Learning and teaching methods and delivery:	Weekly contact: 3 or 4 classes.		
	Scheduled learning: 34 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 = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr K Mantzouranis		
Lecturer(s)/Tutor(s):	Team taught		

GK2001 The Landscape of Greek Prose (A)				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am			
<p>This module, designed to follow on from GK1006, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature.</p>				
Programme module type:	Optional for all Classical Studies, Classics, Greek Degrees			
Pre-requisite(s):	GK1006	Anti-requisite(s):	GK2003	
Required for:	GK2002			
Learning and teaching methods and delivery:	Weekly contact: 3 or 4 classes.			
	Scheduled learning: 36 hours		Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%, 3 class tests, 30%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr N Wiater			
Lecturer(s)/Tutor(s):	team taught			

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GK2002 The Landscape of Greek Poetry (A)			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	10.00 am		
<p>This module, designed to follow on from GK2001, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p>			
Programme module type:	Optional for all Classical Studies, Classics, Greek Degrees		
Pre-requisite(s):	GK2001	Anti-requisite(s):	GK2004
Learning and teaching methods and delivery:	Weekly contact: 3 or 4 classes.		
	Scheduled learning: 36 hours	Guided independent study: 164 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr N Wiater		
Lecturer(s)/Tutor(s):	Team taught		

GK2003 The Landscape of Greek Prose (B)				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am			
<p>This module, designed to follow on from GK1002, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature.</p>				
Programme module type:	Optional for all Classical Studies, Classics, Greek Degrees			
Pre-requisite(s):	GK1002	Anti-requisite(s):	GK2001	
Required for:	GK2004			
Learning and teaching methods and delivery:	Weekly contact: 4 or 5 classes.			
	Scheduled learning: 36 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%, 3 class tests, 30%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr N Wiater			
Lecturer(s)/Tutor(s):	Team taught			

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GK2004 The Landscape of Greek Poetry (B)			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	10.00 am		
<p>This module, designed to follow on from GK2003, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p>			
Programme module type:	Optional for all Classical Studies, Classics, Greek Degrees		
Pre-requisite(s):	GK2003	Anti-requisite(s):	GK2002
Required for:	LT3017		
Learning and teaching methods and delivery:	Weekly contact: Normally 4 classes.		
	Scheduled learning: 44 hours	Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%, 3 class tests, 30%)		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr N Wiater		
Lecturer(s)/Tutor(s):	Team taught		

Latin (LT) modules

LT1001 Elementary Latin 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm			
This module provides a systematic introduction to the Latin language, concentrating on morphology, vocabulary, and basic syntax, and will enable students to read simplified Latin texts and translate sentences from Latin into English and vice versa. It is complemented by LT1002, and will thus give access to Latin at higher levels, but it may also be taken by students whose main interests lie in other areas, such as histories, foreign languages and English. It is also suitable for students who have taken some Latin previously, but not to Higher or A-Level, or who have taken Higher or A-Level Latin on reduced time.				
Programme module type:	Optional for all Classical Studies, Classics, Latin Degrees			
Anti-requisite(s):	LT1003	Required for:	LT1002	
Learning and teaching methods and delivery:	Weekly contact: Normally 4 classes.			
	Scheduled learning: 43 hours		Guided independent study: 157 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 = 50% (4 class tests)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Coderch			
Lecturer(s)/Tutor(s):	Dr J Coderch, Dr N Maniotti, Dr E Gee			

LT1002 Elementary Latin 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm			
This module builds on the work done in LT1001, and its function is to develop knowledge of Latin morphology, syntax and vocabulary and to enable students to read Latin texts. Together with LT1001 it may form a basis for Latin at higher levels, but it will also be useful to students of the histories, foreign languages, English and other subjects.				
Programme module type:	Optional for all Classical Studies, Classics, Latin Degrees			
Pre-requisite(s):	LT1001	Anti-requisite(s):	LT1004	
Required for:	LT2003, LT3017			
Learning and teaching methods and delivery:	Weekly contact: 4 classes.			
	Scheduled learning: 43 hours		Guided independent study: 157 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 = 50% (4 class tests)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Coderch			
Lecturer(s)/Tutor(s):	Dr J Coderch			

Classics - 1000 & 2000 Level - 2016/7 - August 2016

LT1003 World of Latin 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm			
The aims of this module, like LT1004, are to enhance understanding of Latin grammar and syntax, to increase vocabulary, to give a basic understanding of style, and to develop skills in translating and interpreting literary texts. A selection of classical Latin texts are studied, and student are encouraged and assisted to practice reading independently and in extenso. There will be tutorials to support this work and to help with the translation and appreciation of these and other Latin prose and verse authors.				
Programme module type:	Optional for all Classical Studies, Classics, Latin Degrees			
Pre-requisite(s):	Higher or A-Level Latin	Anti-requisite(s):	LT1001	
Required for:	LT1004			
Learning and teaching methods and delivery:	Weekly contact: 2 - 4 classes.			
	Scheduled learning: 34 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 = 40% (2 literary criticisms, 20%, 2 class tests, 20%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr T Geue			
Lecturer(s)/Tutor(s):	Team taught			

LT1004 World of Latin 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm			
This module aims to build on the skills acquired in LT1003, and to introduce students to a wider range of Latin literature. Texts studied may include early or mediaeval Latin, as well as classical literature.				
Programme module type:	Optional for all Classical Studies, Classics, Latin Degrees			
Pre-requisite(s):	LT1003	Anti-requisite(s):	LT1002	
Required for:	LT2001			
Learning and teaching methods and delivery:	Weekly contact: 2 - 4 classes.			
	Scheduled learning: 34 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 = 40% (2 literary criticisms, 20%, 2 class tests, 20%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Rees			
Lecturer(s)/Tutor(s):	Team taught			

LT2001 Latin Language and Literature 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm			
The aim of this module is to foster the student's acquaintance with classical Latin and to explore both prose and verse authors. The authors chosen may vary from year to year. Particular attention is paid to the development of their ideas, literary styles, and genres. There will be lectures on the authors set, seminars to discuss broader themes within the module, and tutorials to monitor and assist progress in study of the language and interpretation of the literature.				
Programme module type:	Optional for all Classical Studies, Classics, Latin Degrees			
Pre-requisite(s):	LT1004	Anti-requisite(s):	LT2003	
Required for:	LT2002, LT4203			
Learning and teaching methods and delivery:	Weekly contact: 2 - 4 classes			
	Scheduled learning: 34 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 = 40% (essay, 20%, 2 class tests, 20%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Gee			
Lecturer(s)/Tutor(s):	Team taught			

LT2002 Latin Language and Literature 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm			
In complement to the programme of LT2001, this module aims to consolidate the student's command of the language in preparation for study at Honours level, and in literature brings the student to further genres and authors, in prose and verse. There will be lectures on the authors set, seminars on broader themes, and, as in LT2001, tutorials to monitor and assist progress in study of the language and interpretation of the literature.				
Programme module type:	Optional for all Classical Studies, Classics, Latin Degrees			
Pre-requisite(s):	LT2001	Anti-requisite(s):	LT2004	
Required for:	LT4203			
Learning and teaching methods and delivery:	Weekly contact: 2 - 4 classes			
	Scheduled learning: 34 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 = 40% (essay, 20%, 2 class tests, 20%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A König			
Lecturer(s)/Tutor(s):	Team taught			

Classics - 1000 & 2000 Level - 2016/7 - August 2016

LT2003 Latin in Progress 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm			
Texts and topics for this module will be similar to those for LT2001, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002.				
Programme module type:	Optional for all Classical Studies, Classics, Latin Degrees			
Pre-requisite(s):	LT1002	Anti-requisite(s):	LT2001	
Required for:	LT2004, LT4203			
Learning and teaching methods and delivery:	Weekly contact: 2 - 4 classes per week, plus 8 hours of additional support classes.			
	Scheduled learning: 42 hours		Guided independent study: 158 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 = 40% (1 literary criticism, 20%, 2 class tests, 20%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Gee			
Lecturer(s)/Tutor(s):	Team taught			

LT2004 Latin in Progress 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm			
In this module the same prescribed texts and topics will be studied as in LT2002, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002.				
Programme module type:	Optional for all Classical Studies, Classics, Latin Degrees			
Pre-requisite(s):	LT2003	Anti-requisite(s):	LT2002	
Required for:	GK3021, LT4203			
Learning and teaching methods and delivery:	Weekly contact: 3 classes.			
	Scheduled learning: 42 hours		Guided independent study: 158 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 = 40% (1 literary criticism, 20%, 2 class tests, 20%)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A König			
Lecturer(s)/Tutor(s):	Team taught			

School of Computer Science

Computer Science (CS) modules

CS1002 Object-Oriented Programming				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Mon and Tue			
This module provides an introduction to object-oriented modeling and programming, using UML and Java. No previous programming experience is assumed.				
Programme module type:	Compulsory for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci, Computer Science (Gateway) programme			
Pre-requisite(s):	Mathematics (Higher or A-Level at Grade B or better)	Anti-requisite(s):	CS2101	
Required for:	CS1003, CS1006, CS2001, CS2006			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 1 x 3-hour practical class.			
	Scheduled learning: 88 hours		Guided independent study: 112 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	first-coord-cs@st-andrews.ac.uk			

CS1003 Programming with Data				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Mon and Tue			
This module explores various aspects of data storage, processing and analysis. Programming skills are reinforced through a range of exercises and practicals covering various aspects of data handling. Topics include: persistent data formats; files and databases; file manipulation; binary and textual data; data processing using open source libraries; database design and use; object-relational mapping frameworks; processing and analysing data; issues of scale. Themes related to current research in the area of data science and big data are emphasised.				
Programme module type:	Compulsory for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci, Computer Science (Gateway) programme			
Pre-requisite(s):	CS1002	Anti-requisite(s):	CS2101	
Required for:	CS2001			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 1 x 3-hour practical class.			
	Scheduled learning: 88 hours		Guided independent study: 112 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	first-coord-cs@st-andrews.ac.uk			

Computer Science - 1000 & 2000 Level - 2016/7 - August 2016

CS1005 Computer Science in Everyday Life				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon			
This module introduces key ideas of Computer Science through examination of the working of devices and services which are part of modern everyday life, such as search engines, personal music players, mobile telephones and social networking sites. Students are led to develop an understanding of some fundamentals of Computer Science, as well as gaining transferable skills in critical reading, research in the technical literature and essay writing.				
Programme module type:	Optional for all Undergraduate programmes within the School of Computer Science.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	first-coord-cs@st-andrews.ac.uk			

CS1006 Programming Projects				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
This module reinforces key Java programming skills gained in CS1002, by means of a series of coursework assignments posed as mini-projects. These are designed to offer increasing depth and scope for creativity as the module progresses.				
Programme module type:	Optional for all Undergraduate programmes within the School.			
Pre-requisite(s):	CS1002			
Learning and teaching methods and delivery:	Weekly contact: 1 tutorial and 2 x 3-hour practical class (x 11 weeks), fortnightly lecture.			
	Scheduled learning: 83 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:	No Re-Assessment available			
Module Co-ordinator:	first-coord-cs@st-andrews.ac.uk			

CS1101 Computer Science Skills				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	Whole Year
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to students on the Computer Science (Gateway).			
Planned timetable:	To be arranged.			
This module develops academic and transferable skills in problem-solving, team-working, information retrieval and analysis, and study skills. It is a core module of the Computer Science (Gateway) programme.				
Programme module type:	Compulsory for Computer Science (Gateway) Programme.			
Learning and teaching methods and delivery:	Weekly contact: 5 tutorials, 3 practical classes and 1 lecture.			
	Scheduled learning: 99 hours		Guided independent study: 101 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	first-coord-cs@st-andrews.ac.uk			

CS2001 Foundations of Computation				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
This module introduces the fundamental algorithms, data structures and ideas about formal languages lying at the heart of modern software, and develops skills in programming and analysis.				
Programme module type:	CS2101 or CS2001 is compulsory for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS1002, CS1003	Anti-requisite(s):	CS2101	
Required for:	CS2002, CS2003, CS2006, CS3051, CS3052, CS3099, CS3101, CS3102, CS3104, CS3105, CS3106, CS3301, CS3302			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 2 x 3-hour practical class.			
	Scheduled learning: 121 hours		Guided independent study: 179 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2 x 2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	second-coord-cs@st-andrews.ac.uk			

Computer Science - 1000 & 2000 Level - 2016/7 - August 2016

CS2002 Computer Systems				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
This module develops skills in programming in C, systems programming, digital logic and low-level computer organisation.				
Programme module type:	Compulsory for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS2001 or CS2101			
Required for:	CS3051, CS3052, CS3099, CS3101, CS3102, CS3104, CS3105, CS3106, CS4201, CS4202, CS4203			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 2 x 3-hour practical class.			
	Scheduled learning: 121 hours		Guided independent study: 179 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2 x 2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	second-coord-cs@st-andrews.ac.uk			

CS2003 The Internet and the Web: Concepts and Programming				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
This module introduces the student to the Internet and the World Wide Web from a Computer Science perspective. It consists of two complementary streams: computer networks and web-based computing. Both streams introduce key concepts, current technologies, programming abstractions and the practical aspects of programming web pages and network applications.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Co-requisite(s):	CS2001 or CS2101	Required for:	CS3102, CS3301	
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 2 x 3-hour practical class.			
	Scheduled learning: 121 hours		Guided independent study: 179 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2 x 2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	second-coord-cs@st-andrews.ac.uk			

CS2006 Advanced Programming Projects				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
This module introduces the functional and dynamic programming paradigms, using languages such as Haskell and Python. Understanding is reinforced through extensive practical exercises.				
Programme module type:	Optional for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Pre-requisite(s):	CS2001 or CS2101			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 2 x 3-hour practical classes.			
	Scheduled learning: 121 hours		Guided independent study: 179 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	second-coord-cs@st-andrews.ac.uk			

CS2101 Foundations of Computation (Accelerated)				
SCOTCAT Credits:	40	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to direct second year entrants.			
Planned timetable:	To be arranged.			
This module is an accelerated version of CS2001. It includes necessary background material from core first-year modules, as well as the same content as CS2001.				
Programme module type:	CS2101 or CS2001 is compulsory for Computer Science BSc, Joint Computer Science degrees, Computer Science MSci			
Anti-requisite(s):	CS1002, CS1003, CS2001			
Learning and teaching methods and delivery:	Weekly contact: 5 lectures, 2 tutorials and 3 x 3-hour practical classes.			
	Scheduled learning: 176 hours		Guided independent study: 224 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2 x 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2 x 2-hour Written Examination = 60%, Existing Coursework = 40%			
Module Co-ordinator:	second-coord-cs@st-andrews.ac.uk			

School of Divinity

Divinity (DI) modules

DI1001 Theology: Issues and History				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am Mon, Tue, Thu			
This module will address a variety of themes within Christian theology. Each theme will be approached with a view to its biblical roots and historical development, its critical reception and restatement in the modern period, and its significance for contemporary theological reflection. Themes covered will include: The problem of 'God' in the modern world; who is Jesus Christ and what difference does it make?; Trinity, Spirit and community; Diagnosis and cure - models for salvation; Beginnings and endings - the origin and destiny of the world. Through consideration of these themes students will also be introduced to several key figures in the history of theology.				
Programme module type:	Compulsory for Theological Studies and MTheol and BD			
Required for:	DI2000, DI4919, DI4924			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof A J Torrance			
Lecturer(s)/Tutor(s):	Prof A J Torrance + other staff			

DI1003 Old Testament 1: Torah and Prophets				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon, Tue, Thu			
This module is an introduction to the life, literature and religion of Ancient Israel. It will in particular consider the main literary types of the Old Testament literature, both in order to familiarise students with the traditions used in the Old Testament and to demonstrate how this literature was shaped by religious, social and historical factors. The class will also consider how it came to form the traditional canon of the Hebrew Bible.				
Programme module type:	Compulsory for Biblical Studies, Hebrew and MTheol and BD			
Required for:	DI4524, DI4800, DI4805			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial (not first week)			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr W Tooman			
Lecturer(s)/Tutor(s):	Dr W Tooman			

Divinity - 1000 & 2000 Level - 2016/7 - August 2016

DI1004 Hebrew 1: Introduction to Hebrew Language				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm Tue, Thu, Fri			
This module aims to give students a sufficient knowledge of the grammar and vocabulary of Old Testament Hebrew to be able to read and analyse prescribed texts. Grammar and vocabulary will be restricted to the texts we will be reading.				
Programme module type:	Compulsory for Hebrew. Either DI1004 or DI1005 is compulsory for Biblical Studies			
Required for:	DI2002			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures and 1 tutorial.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof J R Davila			
Lecturer(s)/Tutor(s):	Prof J R Davila + other staff			

DI1005 New Testament Greek 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm Mon, Tue, Thu			
This module constitutes the first of a two-module New Testament Greek sequence. It introduces the first half of the essential grammar, morphology, and vocabulary of New Testament Greek. Upon the completion of this module, the student will have acquired an understanding of the Noun and Indicative Verb systems of Koine Greek. The student will be prepared for DI2201 New Testament Greek 2, which will cover the remainder of grammar. Upon completion of the entire course of NT Greek grammar, the student will be able to analyse the Greek New Testament, as well as other Koine literature of the period.				
Programme module type:	Compulsory for New Testament. Either DI1004 or DI1005 is compulsory for Biblical Studies			
Anti-requisite(s):	GK1001, GK1002			
Required for:	DI2201, DI4609, DI4613, DI4615			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

DI1006 New Testament 1: Jesus and the Gospels				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon, Tue, Thu			
This module aims to introduce students to New Testament studies in general and to Gospel studies in particular. The general introduction will include consideration of the historical contexts of the New Testament texts, including political, socio-economic and religious factors within the Greco-Roman world and Early Judaism. The Gospels will then be studied with a view to determining the particular interests of their authors, and with a view to assessing their portraits of Jesus in relation to the historical Jesus. Continuous assessment includes the review of a popular 'historical fiction' novel assigned by the module co-ordinator.				
Programme module type:	Compulsory for Biblical Studies, New Testament and MTheol and BD			
Required for:	DI2003, DI4604, DI4605, DI4608, DI4609			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial			
	Scheduled learning: 42 hours		Guided independent study: 158 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr T J Lang			
Lecturer(s)/Tutor(s):	Dr T J Lang, Prof N T Wright + other staff			

DI1009 Introduction to World Religions				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7			
Planned timetable:	4.00 pm Mon, Tue, Thu.			
This module aims to provide a basic introduction to the major world religions apart from Christianity. It will consider methodologies for the comparative study of religions and will investigate how the religions studied (Judaism, Islam, Hinduism and Buddhism) function in contexts within and outwith Britain.				
Programme module type:	Optional for any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks), 1-hour tutorials (x 10 weeks), 3 other contact hours.			
	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: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof M Aguilar			
Lecturer(s)/Tutor(s):	Prof M Aguilar, Prof J R Davila			

Divinity - 1000 & 2000 Level - 2016/7 - August 2016

DI1012 Introduction to Practical Theology and Theological Ethics				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am Mon, Tue, Thu			
	<p>Practical Theology and Christian Ethics are two disciplines within theology, each with distinctive approaches to critiquing people's actions and proposing enhanced practice. One half of this module introduces students to the work of a number of practical theologians so that they may gain methodological and conceptual tools for studying how Christian faith is practised – within and beyond the Church in fields as diverse as disability, cities, gender, and congregations. The other half introduces key concepts from the history of Christian Ethics, such as natural law, divine command, virtue ethics, the relation of scripture to ethics, and political theology.</p>			
Programme module type:	Compulsory for Theological Studies and MTheol and BD			
Anti-requisite(s):	DI1002			
Required for:	DI4524			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial (apart from week 1)			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Stoddart			
Lecturer(s)/Tutor(s):	Dr E Stoddart, Dr J Perry			

DI1201 From Adam to Apocalypse: The Bible and Western Culture				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7			
Planned timetable:	3.00 pm, Mon, Tue, Thu			
	<p>No other book has had a more profound affect in the history of Western civilisation than the Bible, influencing all western cultures and inspiring many of the works of literature, art, and music that define the Western cultural heritage. The module will explore teh Bible from start to finish, covering a range of significant biblical figures (e.g. Adam, Abraham, Moses, David, Jesus) and introducing students to the most influential of the Bible's books (e.g. Isaiah, the Psalms, Job, the Gospels, Revelation). The module will provide students with a basic biblical literacy, all the while exploring the reception of the Bible throughout history and its role in modern day culture.</p>			
Programme module type:	Optional to any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Nevader			
Lecturer(s)/Tutor(s):	Dr M Nevader, Dr T J Lang			

DI2000 Christian Thought and Practice 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu			
This module explores the historical development and present expression of key topics in Christian doctrine and Christian ethics. Four key doctrines will be examined (creation, Trinity, Christology, and soteriology) as well as a variety of approaches to theological ethics (natural law, divine command, virtue ethics, Scripture & ethics).				
Programme module type:	Compulsory for Theological Studies. Optional for MTheol and BD			
Pre-requisite(s):	DI1001			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Holmes			
Lecturer(s)/Tutor(s):	Dr S Holmes + other staff			

DI2001 Old Testament 2: Wisdom, Psalms, Apocalyptic and Apocryphal Literature				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am Mon, Tue, Thu			
This module continues the study of the Old Testament in DI1003, and is an introduction to the literature and theology of the period of Israel's history from exile to the consolidation of the canon. Prophecy, wisdom, psalms, apocalyptic writings, and the earliest forms of inner-biblical exegesis are studied. Attention is given to the final shaping of Israel's sacred texts. The important events from exile to Qumran are illustrated in relationship to the biblical literature.				
Programme module type:	Compulsory for Biblical Studies, Hebrew Optional for MTheol and BD			
Pre-requisite(s):	DI1003			
Required for:	DI4707, DI4708, DI4711, DI4715, DI4729			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial (apart from week 1)			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Nevader			
Lecturer(s)/Tutor(s):	Dr M Nevader			

Divinity - 1000 & 2000 Level - 2016/7 - August 2016

DI2002 Hebrew 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Mon, Tue, Thu			
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 and psalms.				
Programme module type:	Compulsory for Hebrew. Either DI2002 or DI2201 is compulsory for Biblical Studies. Optional for MTheol.			
Pre-requisite(s):	DI1004			
Required for:	DI4705, DI4708, DI4726, DI4729			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

DI2003 New Testament 2: Paul and the Epistles				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am Mon, Tue, Thu			
This module examines the developing theology of the New Testament, paying particular attention to the issue of unity and diversity, and to the themes of Christology and soteriology. Given the importance of Paul to the development of early Christianity, a significant proportion of the module is devoted to studying his writings and those traditionally understood to be Pauline. The distinctive contributions of other New Testament writings will then be examined, as the coherence of early Christian theology is considered.				
Programme module type:	Compulsory for Biblical Studies, New Testament. Optional for MTheol and BD			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial (commencing in week 3).			
	Scheduled learning: 40 hours		Guided independent study: 160 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr D Moffitt			
Lecturer(s)/Tutor(s):	Prof N T Wright, Dr D Moffitt			

DI2006 The Early and Mediaeval Church: History, Beliefs and Practices				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu			
This module will explore key themes in the organisation, practice and beliefs of the early and mediaeval church, focusing mostly on the period from the first to the ninth centuries. Among the topics covered in the first part of the module will be the early church's encounter with the Roman empire, martyrdom, debates over truth, orthodoxy and heresy, the impact of Constantine's conversion and the relationship between paganism and Christianity. The later part of the module covers the coming of Christianity to the British Isles, and especially Scotland, and themes such as the cult of saints, monasticism, pastoral care, worship and pilgrimage. Weekly seminars will involve engagement with key primary texts from the period.				
Programme module type:	Compulsory for Theological Studies. Optional for MTheol and BD			
Required for:	DI4524			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr W Hyland			
Lecturer(s)/Tutor(s):	Dr W Hyland, Dr I Bradley			

DI2201 New Testament Greek 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon, Tue, Thu			
This module constitutes the second of a two-module New Testament Greek sequence. It introduces the second half of the essential grammar, morphology, and vocabulary of New Testament Greek begun in DI1005. Upon the completion of this module, the student will have acquired an understanding of the complete grammar and basic vocabulary of Koine Greek. Upon completion of this module, the student will be able to analyse the Greek New Testament, as well as other Koine literature of the period.				
Programme module type:	Compulsory for New Testament. Either DI2002 or DI2201 is compulsory for Biblical Studies			
Pre-requisite(s):	DI1005 or GK1001 or demonstration of equivalent linguistic competence			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Hafemann			
Lecturer(s)/Tutor(s):	Dr S Hafemann + other staff			

School of Economics & Finance

Economics (EC) modules

EC1001 Macroeconomics				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to First Year students.			
Planned timetable:	2.00 pm Mon, Tue, Thu			
This module is designed to equip you with a fundamental knowledge of macroeconomics. On completing this module you should understand the basic subject matter and framework of macroeconomic analysis, and you should be able to use simple models to analyse such issues as the determinants of economic growth, unemployment, inflation and business cycles.				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics, BA (Int Hons) Economics and BA (Intl Hons) International Relations			
Required for:	EC2002			
Learning and teaching methods and delivery:	Weekly contact: 30 hours of lectures over 11 weeks, plus 1 office hour (x 12 weeks) and 6 tutorials per semester.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof A Sutherland			
Lecturer(s)/Tutor(s):	Prof A Sutherland			

Economics & Finance - 1000 & 2000 Level - 2016/7 - August 2016

EC1002 Microeconomics				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to First Year students.			
Planned timetable:	2.00 pm Mon, Tue, Thu			
The module provides an introduction to the market system and consumer and producer behaviour. Topics covered include demand, supply, elasticities, taxes, welfare and public goods. Different market structures are studied including perfect competition, monopoly and oligopoly. Market failure and the need for government intervention is also analysed. Strategic behaviour is investigated using game theory.				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics, BA (Int Hons) Economics and BA (Intl Hons) International Relations			
Required for:	EC2001			
Learning and teaching methods and delivery:	Weekly contact: 30 hours of lectures over 11 weeks, , plus 1 office hour (x 12 weeks) and 6 tutorials per semester.			
	Scheduled learning: 48 hours		Guided independent study: 152 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr I Smith			
Lecturer(s)/Tutor(s):	Dr I Smith			

EC1003 Mathematics for Economists				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available to First year or Second year students			
Planned timetable:	1.00 pm - 2.00 pm Mon, Tue, Thu			
This is an introduction to calculus and algebra that provides the indispensable mathematical tools for modern economics. Students will learn and practice the basic techniques to write and solve equations, graphically represent functions, and manipulate vectors and matrices. The content will go over fundamental notions like sets, functions, limits, continuity, linear applications, and derivatives, but the emphasis will be on the resolution of exercises and the application of techniques for economic models.				
Programme module type:	Compulsory for BSc or MA in Economics, Financial Economics or Joint or 'with' Economics degrees			
Anti-requisite(s):	MT1002			
Co-requisite(s):	EC1001 or EC2002	Required for:	EC2203	
Learning and teaching methods and delivery:	Weekly contact: 27 hours of lectures over 11 weeks, 20 hours practical classes over 11 weeks, plus 1 office hour (x 12 weeks)			
	Scheduled learning: 59 hours		Guided independent study: 141 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 (2 x 50 minute class tests) = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr T Cuhadaroglu			
Lecturer(s)/Tutor(s):	Dr T Cuhadaroglu			

Economics & Finance - 1000 & 2000 Level - 2016/7 - August 2016

EC2001 Intermediate Microeconomics				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu and some Fridays			
The module aims to deepen the general understanding of microeconomics gained through the study of EC1002. It will cover a range of topics including: consumer and firm theory, decision under uncertainty, game theory and general equilibrium. Formal mathematical reasoning will be combined to a more intuitive approach. This will allow to provide the foundations on which the honours programme can build, while making the module accessible for students not pursuing their studies of economics beyond Level 2000.				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics, BA (Int Hons) Economics			
Pre-requisite(s):	EC1002 and (EC1003 or MT1002)			
Learning and teaching methods and delivery:	Weekly contact: 34 hours of lectures over 11 weeks, plus 1 office hour (x 12 weeks) and 6 tutorials per semester.			
	Scheduled learning: 52 hours		Guided independent study: 148 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Negri			
Lecturer(s)/Tutor(s):	Dr M Negri			

EC2002 Intermediate Macroeconomics				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu and some Fridays			
This module builds on EC1001, developing theories of the determinants of long-run economic growth, and developing theories of the causes of short-run "business cycle" fluctuations. The emphasis in this module is on macroeconomic theory – the building of macroeconomic models. However, we test the validity of these models empirically and use them to understand important events in recent economic history. The module remains reasonably non-technical so it is accessible to those whose study of economics ends at Level 2000. But, it also enables those students intending to pursue economics at honours to consolidate their understanding of basic principles of analysis and to develop the foundation on which the honours programme builds.				
Programme module type:	Compulsory for Applied Economics, Economics, Financial Economics, BA (Int Hons) Economics			
Pre-requisite(s):	EC1001 and (pre-or co-requisite EC1003 or MT1002)			
Learning and teaching methods and delivery:	Weekly contact: 34 hours of lectures over an 11 week period, plus 1 office hour (x 12 weeks) and 6 tutorials per semester.			
	Scheduled learning: 52 hours		Guided independent study: 148 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr O DeGroot			
Lecturer(s)/Tutor(s):	Dr O DeGroot			

Economics & Finance - 1000 & 2000 Level - 2016/7 - August 2016

EC2008 Topics in Finance				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1 & 2 (taught twice)
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Not available to first year students			
Planned timetable:	Semester 1: 11.00 am Mon, Tue, Thu - Semester 2: 11.00 am Mon, Tue, Wed			
<p>The module is designed to provide students with a general understanding of how financial markets work and the impact of financial markets on the domestic and international economic system. The first part of the module introduces elements of financial math, such as calculation of present value and cash flows, bonds and stocks prices. Using economics analytical models and data, it presents a general overview of key monetary and financial market phenomena, of how financial and money market institutions operate and the basic workings of financial and money markets. The second part of the module focuses on the 2007-2008 financial crisis, the use of monetary policy instruments and the conduct and transmission mechanisms of monetary policy. The module will also focus on current events reported in the news and use the analytical frameworks developed in lectures to understand these developments.</p>				
Programme module type:	Available to any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 27 lectures over 11 weeks, plus 1 office hour (x 12 weeks)			
	Scheduled learning: 39 hours		Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Savorelli			
Lecturer(s)/Tutor(s):	Dr L Savorelli			

EC2203 Statistics for Economists				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon, Tue, Thu			
<p>The module will provide an introduction to statistical methods and regression analysis. Basic probability theory is introduced in order to build up the framework of statistical inference. Statistical principles are then applied to simple regression analysis. Emphasis will be placed on techniques according to their relevance and application to economics. The module is designed for those planning honours economics.</p>				
Programme module type:	Compulsory for BSc or MA Economics, Financial Economics, Joint Honours or 'with' degrees			
Pre-requisite(s):	EC2002 and (EC1003 or MT1002)	Anti-requisite(s):	MT2004, MT2508	
Learning and teaching methods and delivery:	Weekly contact: 27 hours of lecture over 11 weeks, 2-hour practical classes (x 10 weeks), plus 1 office hour (x 12 weeks)			
	Scheduled learning: 59 hours		Guided independent study: 141 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 (2 x 50-minute Class Tests) = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr V Saxena, Dr P Egan			
Lecturer(s)/Tutor(s):	Dr V Saxena, Dr P Egan			

School of English

English (EN) modules

EN1003 Culture and Conflict: An Introduction to Nineteenth- and Twentieth-Century Literature				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
In this module students are introduced to a small number of texts, in prose and verse, from the nineteenth and twentieth centuries. Emphasis is laid on (i) practical criticism, (ii) close reading, and (iii) the importance of literary-historical context.				
Programme module type:	A minimum of two of EN1003, CO1001, EN1004 and CO1002 are compulsory for English. EN1003 is compulsory for BA (Int Hons) English.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 60 hours		Guided independent study: 140 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Gill			
Lecturer(s)/Tutor(s):	Team taught			

EN1004 Explorers and Revolutionaries: Literature 1680 - 1830				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
This module introduces a range of works from the period 1680-1830. Looking at travel, colonialism, and different constructions of "man's natural estate" in the early eighteenth century, the module traces the development of these themes into Romanticism's passion for literal and figurative journeys, its revolutionary critique of human enslavement by society, and its fascination with the power of Nature.				
Programme module type:	A minimum of two of EN1003, CO1001, EN1004 and CO1002 are compulsory for English. EN1004 is compulsory for BA (Int Hons) English.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 65 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr K Garner			
Lecturer(s)/Tutor(s):	Team taught			

English - 1000 & 2000 Level - 2016/7 - August 2016

EN2003 Mediaeval and Renaissance Texts				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Not available to First Year students.			
Planned timetable:	4.00 pm			
In this module students will learn to read early forms of English language and literature, using specially edited texts from Old English, Middle English and Older Scots. In the other half of the module students will encounter and gain a critical understanding of Renaissance verse, via the study of John Donne's poems and Milton's Paradise Lost.				
Programme module type:	Compulsory for English			
Pre-requisite(s):	No pre-requisites when taken as a 'stand alone' module, but EN2003 is not available to students in their first year.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 60 hours		Guided independent study: 140 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Rauer			
Lecturer(s)/Tutor(s):	Team taught			

EN2004 Drama: Reading and Performance				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Not available to First Year students.			
Planned timetable:	4.00 pm			
This module is designed to provide an introduction to a small number of representative plays from the Renaissance period and from the twentieth century. Special emphasis will be laid upon conditions of production and reception: the literary, political and theatre-historical contexts in which these plays were first created and those in which they are now received. At the same time the distinctive nature of the theatrical medium will be stressed, and students will be encouraged to develop a flexible critical response that will take proper account of the hybrid nature of plays both as texts and as performances.				
Programme module type:	Compulsory for English			
Pre-requisite(s):	No pre-requisites when taken as a 'stand alone' module, but EN2004 is not available to students in their first year.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial, and 2 optional consultative hours.			
	Scheduled learning: 65 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr B Hewitt			
Lecturer(s)/Tutor(s):	Team taught			

School of Geography & Geosciences

Earth & Environmental Sciences (ES) modules

ES1001 Planet Earth			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	9.00 am Mon - Fri; 2.00 pm - 4.00 pm Thu and Fri		
This module provides a foundation into the study of Earth and environmental sciences. The key elements of the planet will be introduced. The bulk structure of the solid Earth (and the other planets of our solar system), and the dynamic hydrosphere and atmosphere will be covered from planetary to atomistic scales. Practical and transferable skills will be developed in tutorials and laboratory exercises which include the identification of minerals and rocks both in hand specimen and using microscopes. Fieldwork will be introduced as two half-day excursions. University-level study skills associated with this module include working in groups, oral and written presentations, advanced use of the University's internet and library facilities for data acquisition, and critically assessing scientific data and reports.			
Programme module type:	Compulsory for BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Sciences		
Anti-requisite(s):	GG1011	Required for:	ES2001
Learning and teaching methods and delivery:	Weekly contact: 5 lectures, tutorials and skills sessions, and 1 x 2-hour practical (x 11 weeks); 7-hours fieldwork in total.		
	Scheduled learning: 84 hours	Guided independent study: 116 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 30%, Coursework = 20%		
	As used by St Andrews: 2-hour Written Examination = 50%, 2-hour Practical Examination = 30%, Coursework = 20%		
Re-Assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4		
Module Co-ordinator:	Dr S Mikhail		
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff		

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

ES1002 Earth Resources and Environment				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon - 1.00 pm Mon - Fri; 2.00 pm - 4.00 pm Thu and Fri			
<p>This module builds on the understanding of planet Earth gained in ES1001, with an underlying theme of the Earth's resources and environment. The processes in action at different tectonic settings (volcanism, metamorphism etc) and the natural hazards induced by these processes leads into Earth resources (metals, hydrocarbons and energy) and the applied nature of Earth Sciences in problem-solving resource and environmental issues. Key skills for Earth and environment scientists are developed and the module includes a 4-day residential field excursion to the northeast of Scotland around Easter.</p>				
Programme module type:	Compulsory for BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Sciences			
Pre-requisite(s):	Normally ES1001	Anti-requisite(s):	GG1012	
Required for:	ES2001			
Learning and teaching methods and delivery:	Weekly contact: 5 lectures, tutorials and 1 x 2-hour practical (x 11 weeks), plus 40 hours of fieldwork over the semester.			
	Scheduled learning: 117 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 25%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 50%, 2-hour Practical Examination = 30%, Coursework = 20%			
Re-Assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4			
Module Co-ordinator:	Dr M Singer			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

ES1801 Field Geology Summer School				
SCOTCAT Credits:	24	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to non-graduating students.			
Planned timetable:	Mon - Thu, variable hours. Fri dedicated to personal study			
This module aims to introduce students to Earth Science in the context of Scottish Geology over a five-week course. Scotland is the ideal natural laboratory for this; it offers classic exposures of a variety of rock types relevant to key periods throughout the three billion-years of Earth History. The taught component of the module includes lectures, practical classes and fieldtrips. Assessment comprises of: exams (multiple choice/short answer questions, an illustrated essay), field notebook presentation, group oral presentations.				
Programme module type:	Summer module for non-graduating students only.			
Pre-requisite(s):	GPA of 3.0 or above (or equivalent)			
Learning and teaching methods and delivery:	Weekly contact: Fieldwork, lectures, practical classes full-time over 5 weeks.			
	Scheduled learning: 157 hours		Guided independent study: 83 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: MCQ Test = 5%, 2-hour Mid-term Examination = 15%, 2-hour Final Examination = 20%, Coursework = 60%			
Re-Assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4			
Module Co-ordinator:	Dr W McCarthy			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

ES2001 Dynamic Earth: The Earth System				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am - 11.00 am Mon - Fri; 2.00 pm - 5.00 pm Tue			
<p>This module reflects an up-to-date approach to understanding of the behaviour of the solid Earth and its interaction with the atmosphere and biosphere and beyond. It will provide detailed training in some of the processes acting at or near the Earth's surface (for example the dynamics of erosional processes). The evolution of the planet as a whole (including the evolution of life) from magma oceans in the early Earth to the present day will be covered in detail. Practical and theoretical training in geophysical methods for probing the near surface of the Earth will be provided.</p>				
Programme module type:	Compulsory for BSc Geology, Environmental Earth Science, joint degrees with Biology and Chemistry, and MGeol Earth Sciences			
Pre-requisite(s):	ES1001 and ES1002 or equivalent	Required for:	ES2002, ES2003	
Learning and teaching methods and delivery:	Weekly contact: 5 lectures and 1 x 3-hour laboratory per week, and occasional tutorials; 16 hours fieldwork			
	Scheduled learning: 112 hours		Guided independent study: 188 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 30%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 50%, 3-hour Practical Examination = 30%, Coursework = 20%			
Re-Assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4			
Module Co-ordinator:	Dr T Raub			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

ES2002 Dynamic Earth: Magma, Minerals and Metamorphism				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am - 11.00 am Mon, Wed, Fri; 2.00 pm - 5.00 pm Tue			
<p>This module focuses on the geology and geochemistry of the solid Earth and high temperature processes in the Earth's interior. The mineral building blocks of the Earth will be covered in detail, as well as volcanic and metamorphic processes and geodynamics. A key component of this course is the residential field course to central Spain around the time of the Easter vacation, where independent field mapping will be introduced. Undergraduates on the BSc Geology degree must take ES2002, and are strongly encouraged also to take ES2003.</p>				
Programme module type:	Compulsory for BSc Geology, BSc Environmental Earth Sciences and joint degrees with Biology and Chemistry, and MGeol Earth Sciences.			
Pre-requisite(s):	Normally ES2001	Anti-requisite(s):	GS2012	
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 x 3-hour laboratory per week and occasional tutorials; 54 hours fieldwork.			
	Scheduled learning: 116 hours		Guided independent study: 184 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 50%, 2-hour Practical Examination = 20%, Coursework = 30%			
Re-Assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4			
Module Co-ordinator:	Dr W McCarthy			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

ES2003 Dynamic Earth: Earth Surface Processes				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lecture: 10.00 am - 11.00 am Tue, Thu and 2.00 pm - 3.00 pm Mon. Practical 3.00 pm - 6.00 pm Mon			
<p>This module focuses on the low temperature processes that occur in the outer envelopes of the Earth, including land-atmosphere interactions, glacial processes, tectonic geomorphology, geomicrobiology and oceanography. Relationships between physical, chemical and biological processes occurring along Earth's surface, and their impact on climate, will be explored using case studies. A key component of this course will be fieldwork to sites of environmental interest developing field skills in water/sediment sampling and analysis, and unravelling contaminant flow-patterns.</p>				
Programme module type:	Compulsory for BSc Geology, BSc Environmental Earth Science and MGeol Earth Sciences.			
Pre-requisite(s):	ES2001			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures and 1 x 3-hour laboratory per week; 12 hours of tutorials and 16 hours fieldwork over the semester.			
	Scheduled learning: 94 hours		Guided independent study: 206 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 80%, Coursework = 20%, No Re-Assessment if Coursework mark is <4			
Module Co-ordinator:	Dr N Allison			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

ES2004 Practical and Field Skills for Earth Sciences (Direct Entrants)				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	Whole Year
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to students who have been accepted for direct 2nd year entry to an Earth Science degree programme.			
Planned timetable:	12.00 noon - 1.00 pm Mon - Fri; practical 2.00 pm - 4.00 pm Thu or Fri			
<p>This module is only available to students who have been accepted for direct 2nd year entry to an Earth Science degree programme. It provides basic practical and fieldwork skills that are not taught at secondary school and which characterise University-taught, accredited Earth Science programmes. Students will take part in level 1 practical and field-based exercises, and then apply these skills to the level 2 teaching programme. The students will also attend those aspects of the lecture programme that are not covered in A-level or Higher Geology curricula. The learning in this module will supplement and complement the ES2001, 2002 & 2003 teaching.</p>				
Programme module type:	Compulsory for Direct entrants to Second Year Geology			
Pre-requisite(s):	Direct Second Year acceptance to BSc Geology, BSc Environmental Earth Science or MGeol Earth Science Degrees			
Co-requisite(s):	Normally ES2001, ES2002 and ES2003	Anti-requisite(s):	ES1001, ES1002	
Learning and teaching methods and delivery:	Weekly contact: Weekly lectures, practical classes, and fieldwork. Generally 5 hours per week lecture/lab time plus associated field classes.			
	Scheduled learning: 190 hours		Guided independent study: 110 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Coursework = 100% (made up of Group Work and 2 Field Excursions = 50%, Practical Examinations = 50%)			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Mikhail			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

Geography (GG) modules

GG1001 Welcome to the Anthropocene: Society, Population, Environment				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 11.00 am Tue, Wed, Thu and tutorials: 11.00 am Mon and Fri			
As the global population speeds past 7 billion, mounting evidence about resource depletion and climate change, and global economic inequality and social injustice, suggests current human development is unsustainable and that we are now living in the "Anthropocene" – an era in which human activity has, for the first time, become the dominant driver of environmental processes, and is causing unprecedented global change. The module shows how Geography, a discipline that draws on knowledge that spans the social and natural sciences and the humanities, is uniquely placed to understand our changing world. Its combination of lectures and tutorials are relevant to students across the University.				
Programme module type:	Compulsory for Single Honours, Joint Honours and 'with' Degrees in Geography and for Sustainable Development			
Required for:	GG1002 and GG2011, SD1000 and SD2001			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures (x 11 weeks) + 3 x 2-hour laboratory, 5 x 1-hour tutorials, and 1 x 4-hour fieldtrip during the semester.			
	Scheduled learning: 48 hours		Guided independent study: 154 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M B Sothern			
Lecturer(s)/Tutor(s):	Team taught			

GG1002 A World in Crisis?				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 11.00 am Tue, Wed, Thu and tutorials: 11.00 am Mon and Fri			
Contemporary global problems such as pollution, biodiversity loss and population growth are critical issues for the planet's future and demonstrate the interdependence of social and environmental systems. This module unpacks the complexity of these challenges by analyzing different manifestations of 'a world in crisis' as questions of geography – shaped by geographic processes operating at a range of scales (from the global to the local). The module thus explores how Geography works as a 'world discipline' that is equipped to examine global problems from a range of human, environmental and physical geography perspectives. Teaching comprises a mix of lecture learning and project work on selected global problems.				
Programme module type:	Compulsory for all Single Honours, Joint Honours and 'with' Degrees in Geography			
Pre-requisite(s):	GG1001			
Required for:	GG2011			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures (x 11 weeks) 5 x 1-hour tutorials, and 1 x 8-hour field class during the semester.			
	Scheduled learning: 46 hours		Guided independent study: 154 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M B Sothern			
Lecturer(s)/Tutor(s):	Team taught			

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

GG2011 Geographies of Global Change			
SCOTCAT Credits:	30	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 9.00 am Mon - Fri, other classes: 2.00 pm - 4.00 pm or 4.00 pm - 6.00 pm Mon		
<p>Geography is the study of the world around us, and how it is changing and has changed. The module encourages students to think 'geographically' about particular physical and human dimensions of global change: environmental, atmospheric, hydrological, geomorphological and palaeoecological change; and demographic and economic change. These geographical themes will be framed by a discussion of the nature and evolution of geography as a discipline, and how thinking 'geographically' involves understanding the operation of and interactions between complex bio-physical and social processes. The module explores how the geographer views such processes through the conceptual lenses of time, space, context, scale and variation, and using field, laboratory and model-based methods. Classroom instruction is complemented by lab work which develops key skills in cartography and Geographic Information Science.</p>			
Programme module type:	Compulsory for all Single Honours, Joint Honours and 'with' Degrees in Geography		
Pre-requisite(s):	GG1001 and/or GG1002 (2015/6) GG1002 and GG1002 (2016/7)		
Required for:	GG2012		
Learning and teaching methods and delivery:	Weekly contact: 4 lectures (x 11 weeks), 4 x 1 hour tutorials, 1 x 8 hours fieldtrip, 2 x 2 hour practicals during the semester.		
	Scheduled learning: 60 hours	Guided independent study: 242 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%, Practical Examination = 15%, Coursework = 45%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr D McCollum		
Lecturer(s)/Tutor(s):	Team taught		

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

GG2012 (Re)constructing Environments, People and Places			
SCOTCAT Credits:	30	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 9.00 am Mon - Fri, other classes: 2.00 pm - 4.00 pm Mon or 4.00 pm - 6.00 pm Mon		
<p>An important contemporary focus within Geography is the reconstruction of physical and human environments, and the study of processes of environmental and social change in order to understand present-day patterns and explore future scenarios. Geographers from all parts of the discipline share a concern with how and why different peoples, places and bio-physical and social processes operated in both time and space. The different lecture blocks in the module on environmental management, ecological change, health inequalities, and cultural difference - explore these folds between time and space. The module prepares students for entry to Honours Geography, and, through a residential fieldtrip, broadens their geographic interests and skills in physical and human geography.</p>			
Programme module type:	Compulsory for all Single Honours, Joint Honours and 'with' Degrees in Geography		
Pre-requisite(s):	GG2011		
Learning and teaching methods and delivery:	Weekly contact: 4 lectures (x 11 weeks) + 4 x 1-hour tutorials, 2 x 3-hour practicals, 1 x 16-hour fieldtrip during the semester.		
	Scheduled learning: 70 hours	Guided independent study: 226 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr D McCollum		
Lecturer(s)/Tutor(s):	Team taught		

Sustainable Development (SD) modules

SD1000 What is Sustainable Development?				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am Mon - Fri			
<p>"Sustainable Development" is a term that is very widely used internationally, nationally and locally by academics, policy-makers, businesses and NGOs, but what does it really mean? This module is designed to provide an introductory overview to underpinning ideas, such as social justice, human well-being, inter-generational equity and environmental stewardship, which are embedded within notions of sustainable development as key areas of debate in defining and interpreting the concept. The module also provides an account of how sustainable development has emerged as such a powerful idea, and examines different disciplinary perspectives on what issues sustainable development should be trying to address, as well as exploring the value of an interdisciplinary approach in studying and facilitating sustainable development.</p>				
Programme module type:	Compulsory for Sustainable Development			
Pre-requisite(s):	GG1001			
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks) 1-hour tutorials (x 5 weeks), 1 x 8-hour fieldwork and 2 further contact hours in total			
	Scheduled learning: 48 hours		Guided independent study: 154 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Brown			
Lecturer(s)/Tutor(s):	Team taught			

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

SD2001 Sustainable Development: Frameworks for Implementation			
SCOTCAT Credits:	30	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	1.00 pm Mon, Tue, Fri (lectures), 9.00 am and 10.00 am Wed, 10.00 am Thu (seminars/tutorials)		
<p>Having considered in Level 1 why the concept of sustainable development (SD) is important and key concerns and areas of debate in understanding meanings of SD, Level 2 of the programme progresses to introduce aspects of how SD might be encouraged and facilitated. This module considers broad conceptual approaches to implementing SD. It includes more traditional frameworks based on governance and regulation ('command and control') as well as examining the role and importance of other approaches, including environmental economics and the use of market-based mechanisms, technological innovation, self-regulation, changing individual lifestyles, education and community-based enablement, and the principles of conservation science. The module also addresses the extent to which these different approaches are independent or can be used together to bring about change for SD.</p>			
Programme module type:	Compulsory for Sustainable Development		
Pre-requisite(s):	GG1001 and SD1000		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures (x 11 weeks), 4 x 1-hour seminars, 5 x 1-hour tutorials, 2 x 1-hour debriefing sessions, 2 x 6-hour fieldtrips during the semester.		
	Scheduled learning: 56 hours	Guided independent study: 244 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 20%, Coursework = 50%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr T A Stojanovic		
Lecturer(s)/Tutor(s):	Team taught		

Geography & Geosciences - 1000 & 2000 Level 2016/7 - August 2016

SD2002 Sustainable Development: Tools for Action			
SCOTCAT Credits:	30	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	1.00 pm Mon, Tue, Thu, Fri (lectures), 10.00 am and 11.00 am Tue & Wed, 9.00 am & 10.00 am Thu (seminars/tutorials), 10.00 am Wed & Thu (labs)		
<p>It is not often clear how ideas from sustainable development catalysed real-world change. The SD2002 module builds upon core themes from SD2001 and looks at 'how' different agents, such as governments, corporations, and individuals enact change. Fundamental to this module is the development of methodologies used to gather evidence and study the problems faced in SD. The module will challenge students to develop critical analysis skills; both qualitative and quantitative. A highlighting feature of the SD2002 module is a field-trip to the Links at St Andrews, to learn about sustainability initiatives in the golf industry.</p>			
Programme module type:	Compulsory for Sustainable Development		
Pre-requisite(s):	SD2001		
Learning and teaching methods and delivery:	Weekly contact: 38 lectures (3 lectures x 11 weeks plus 5 extra lectures); 1-hour seminar (x 8 weeks); 1-hour tutorial (x 4 weeks); 2-hours practicals (x 3 weeks); and 1 x 4-hours fieldtrip		
	Scheduled learning: 56 hours	Guided independent study: 244 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr J Long		
Lecturer(s)/Tutor(s):	Team taught		

School of History

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

History (HI) modules

HI2001 History as a Discipline: Development and Key Concepts			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	11.00 am Mon, Tue and Thu		
<p>This module provides an introduction to key theoretical and methodological approaches which have characterised the emergence of History as a discipline since mediaeval times. It covers a number of influential historical schools and perspectives, which are taught thematically with reference to the mediaeval, early modern and late modern periods. The module builds on knowledge acquired by students during their first three semesters of study and equips them with the skills to undertake honours work in History.</p>			
Programme module type:	Compulsory for Modern History. Optional for History, Mediaeval History, Mediaeval History & Archaeology, Mediaeval Studies, Middle East Studies, Scottish History and BA (Intl Hons) History		
Pre-requisite(s):	any 3 History modules (AN, ME or MO), including at least 1 at 2000-level.		
Anti-requisite(s):	MO2006		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.		
	Scheduled learning: 44 hours	Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr M McLean		

Mediaeval History (ME) modules

ME1003 The Fall of Rome and the Origins of Europe (400-1000)				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am Mon, Tue and Thu			
The Middle Ages began with the fifth-century crisis of the Roman Empire. This module examines how political, cultural and social life changed in the Byzantine, British and 'barbarian' worlds in response to major upheavals. The first half focuses on the period up to the ninth century, exploring how the West dealt with the collapse and rebuilding of empire, and how the Eastern Empire responded to the Islamic caliphate. In the second half, the module studies how the emerging certainties of the eighth century fell away and new challenges were posed by new invaders, new ideas, and changes in the structures of society. In contrast the East witnessed a gradual Byzantine revival and re-emergence as a major power.				
Programme module type:	Compulsory for Mediaeval History, Mediaeval History & Archaeology. Optional for History, Mediaeval Studies, Middle East Studies, Scottish History and BA (Intl Hons) History.			
Anti-requisite(s):	ME1001, ME1004			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr T Greenwood			

ME1006 Scotland and the English Empire 1070 - 1500				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am Mon, Tue and Thu			
From the aftermath of the Norman Conquest of England to the close of the Fifteenth Century, the history of the island of Britain centred on the development of two monarchies: the English crown and its dominions and the kingdom of Scotland. This module has at its core the relationship between the two realms and comparisons of the different but related societies they contained. The English and Scottish realms are examined as specific examples of northern European kingdoms in the high and later Middle Ages. Attention is paid to their internal development and to issues of national identity but weight is also given to the full range of contacts between the princes and peoples of Britain and the wider world, in particular via the Church and through extensive ties with France and the Low Countries.				
Programme module type:	Compulsory for Mediaeval History, Mediaeval History & Archaeology, Middle East Studies. Optional for History, Mediaeval Studies, Middle East Studies, Scottish History and BA (Intl Hons) History.			
Anti-requisite(s):	ME2001, SC2003			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C McGladdery			

ME2003 Europe in the High Middle Ages				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Mon, Tue and Thu			
<p>This module surveys European history from the eleventh to the fourteenth centuries, a period known as the "High Middle Ages". Rather than providing an exhaustive chronology of political events, the course examines key themes that helped to shape Western Europe in this period. This will enable students to understand not just the major events that occurred in the period (including, for example, the contest between the Western Emperors and the Popes, or the Crusades), but also the mentalities and lives of the people who experienced them. Topics such as belief, dissent and private life are considered alongside more traditional areas like the development of national governments and trade. The module, while self-contained and coherent, will follow neatly on from ME1003, a module dealing with the transformation of Europe in the early Middle Ages.</p>				
Programme module type:	Compulsory for Mediaeval History, Mediaeval History & Archaeology. Optional for History, Middle East Studies, Scottish History and BA (Intl Hons) History.			
Anti-requisite(s):	ME1004, ME2001, ME2004			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Cox			

Middle Eastern History (MH) modules

MH2002 Introduction to Middle Eastern History				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Tue, Thu (2016/7) 3.00 pm Mon, Tue Thu (2017/8)			
<p>This module provides an introduction to Middle Eastern History from the dramatic reconfiguration of the Middle East in late Antiquity to its contested and contentious recent past. It explores political, social and cultural life across the Middle East through the comparative treatment of several themes. These will normally include states and authority; social dislocation and transformation; belief and literary expression; identity; and cross-cultural engagement. It will also define and explore key moments of transition, including the spread of Islam, Turkic irruptions and European encounters. Collectively these have profoundly influenced the modern Middle East.</p>				
Programme module type:	Compulsory for Middle East Studies. Optional for History, Mediaeval History, Mediaeval History & Archaeology and BA (Intl Hons) History.			
Pre-requisite(s):	60 credits of ME or MO modules OR 60 credits of AR modules OR 60 credits of PR modules.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA:			
	Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
Assessment pattern:	As used by St Andrews:			
	2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr D Kastritsis			

Modern History (MO) modules

MO1007 The Early Modern Western World (c. 1450 - c. 1770)				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon, Tue and Thu			
This module will look at continental European history in the early modern period, and the expansion of Europe. The British Isles will not be a major focus of this module, but British material will be touched upon as part of broader European comparative treatment of several themes. The module will be structured into two halves: "New Worlds" and "The Struggle for Order": the first half will focus more (but not exclusively) on the period c.1450 - c.1600, the second half more on the period c.1600 - c.1770.				
Programme module type:	Compulsory for Modern History. Optional for History, Middle East Studies, Scottish History and BA (Intl Hons) History.			
Anti-requisite(s):	MO1005, MO1006			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Condren			

MO1008 Themes in Late Modern History (c. 1776 - 2001)				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon, Tue and Thu			
This module provides a thematic coverage of major political and social developments in the Western world during the 19th and 20th centuries. By adopting a thematic rather than chronological structure, it highlights continuities and ruptures in modern European, American and Middle Eastern history, with an emphasis on comparative approaches to subjects like revolution, ideology and rapid social and cultural change that have shaped the modern world.				
Programme module type:	Compulsory for Modern History. Optional for History, Middle East Studies, Scottish History and BA (Intl Hons) History.			
Anti-requisite(s):	MO2007			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Kaul			

History - 1000 & 2000 Level - 2016/7 - August 2016

MO2008 Scotland, Britain and Empire (c. 1500 - 2000)			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	11.00 am Mon, Tue and Thu		
<p>This module provides an introduction to how and why the British nation state evolved from the separate kingdoms of England, Scotland and Ireland and how and why it has survived over the last three centuries. Such a project involves an analysis of the shifting relations between the component parts of the British Isles, and their overseas imperial activities, between 1500 - 2000. The core of the module is political history, broadly defined, and to facilitate more in-depth analysis of the range of factors impacting on political developments, the period is divided into four thematically coherent eras: the Reformations and the Making of Britain 1500 -1660; Britain and the Atlantic World 1660 - 1815; Industrial Britain and the Rise of Empire 1750 - 1918; the Decline and Fall of Empire: Britain in the Twentieth Century.</p>			
Programme module type:	Compulsory for Modern History, Scottish History. Optional for History, Mediaeval History, Mediaeval History & Archaeology, Middle East Studies and BA (Intl Hons) History.		
Anti-requisite(s):	SC2004		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.		
	Scheduled learning: 44 hours	Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Prof S Murdoch		

School of International Relations

International Relations (IR) modules

IR1005 Introduction to International Relations			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 1
Academic year:	2016/7 & 2017/8		
Availability restrictions:	Available only to First Year students in the Faculties of Arts and Divinity.		
Planned timetable:	10.00 am Mon, Tue, Wed		
This module provides students with some of the basic theoretical approaches and concepts used in the study of international relations. At the same time it relates these concepts to international conflict, attempts to create a more peaceful international order, and the problems of a globalising world.			
Programme module type:	Compulsory for International Relations and BA (Intl Hons) International Relations		
Pre-requisite(s):	AAAB at Higher or AAA at A-Level or IB38.	Required for:	IR1006, IR2005, IR2006
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 1 consultation hour with Tutor (x 10 weeks) and 2 consultation hours with Year Coordinator (x 12 weeks). 4 hours of exam feedback are given in week 1 of the following semester.		
	Scheduled learning: 77 hours	Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	TBC		

International Relations – 1000 & 2000 Level - 2016/7 - August 2016

IR1006 Foreign Policy Analysis and International Security				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am Tue, Wed, Thu			
This module looks at the way states make foreign policy and the importance of security to this process. We start by looking at the domestic context, move on to issues of security, explore the way individual states shape their policy and the extent to which their actions are shaped by international regimes, law and diplomacy.				
Programme module type:	Compulsory for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR1005	Required for:	IR2005, IR2006	
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 1 consultation hour with Tutor (x 10 weeks) and 2 consultation hours with Year Coordinator (x 12 weeks). 4 hours of exam feedback are given in week 1 of the following semester.			
	Scheduled learning: 77 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

International Relations – 1000 & 2000 Level - 2016/7 - August 2016

IR2005 Theoretical Approaches to International Relations				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am Wed, 10.00 am Thu			
<p>Theory is central to the discipline of International Relations. It is theory that distinguishes the field from the study of history, current affairs or journalism and makes the subject area more than simple descriptive thought. This module examines the main current theories in IR and provides an overview of their main theoretical approaches to the study of IR, from Liberalism and Realism; through Constructivism and the English School, to radical Marxist and Neo-Marxist perspectives as well as Feminism, Post-Colonialism and Postmodernism. The main purpose of this module is to facilitate a comprehensive understanding of how major scholars, past and contemporary, have theorised about the dynamics of international relations. The theories generally make a number of propositions which sometimes offer conflicting perspectives, but also occasionally overlap. Our main task will be to outline, critique, compare and contrast the assumptions and values which underlie each of these theories so students may enhance their own critical understanding of IR as well as form their own perspectives.</p>				
Programme module type:	Compulsory for International Relations and BA (Intl Hons) International Relations			
Pre-requisite(s):	IR1005 and IR1006	Required for:	IR2006	
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 1 consultation hour with Tutor (x 10 weeks) and 2 consultation hours with Year Coordinator (x 12 weeks). 2 hours of exam feedback are given in week 1 of the following semester.			
	Scheduled learning: 66 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 = 40%, Class Test = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr T Shepperd			

International Relations – 1000 & 2000 Level - 2016/7 - August 2016

IR2006 Issues in International Relations			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	4.00 pm Tue, Thu		
<p>Building on IR2005's discussion of theoretical approaches to International Relations, this module will explore how these relate to some of the issues that confront those engaged in the world of international politics. The introduction to the module will reiterate why theory matters and each week the lecturers will approach the individual issues through one of two theoretical lenses, though there will be no single model applied to all cases. These will include: terrorism and asymmetric warfare, non-proliferation and weapons of mass destruction, 'new wars', humanitarian intervention and its limits, human rights, religion, aid and development, environmental change, regionalism.</p>			
Programme module type:	Compulsory for International Relations and BA (Intl Hons) International Relations		
Pre-requisite(s):	IR2005		
Learning and teaching methods and delivery:	Weekly contact: 2x 1-hour lectures (x 10 weeks), 1 x 1-hour tutorial (x 10 weeks), 1 consultation hour with Tutor (x 10 weeks) and 2 consultation hours with Year Coordinator (x 12 weeks). 2 hours of exam feedback are given in week 1 of the following semester.		
	Scheduled learning: 66 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 = 40%, Class Test = 20%, Coursework = 40%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Dr T Shepperd		

School of Management

Management (MN) modules

MN1001 Organisations and Society				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm			
This module introduces students to three key aspects of Management in the external and internal environment. Firstly, Understanding the Business Environment analyses changes in key environmental forces, the impact of such changes on organisations and the implications for Management. Secondly, People and Organisations looks at theoretical perspectives and practical problems in understanding people and work and how they are managed. Thirdly, Economic Principles examines how the particular environment, objectives and structural form of organisations may affect their behaviour and performance.				
Programme module type:	Compulsory for all Management and Management Science degrees			
Required for:	MN2001, MN2002			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures (x 11 weeks) and 1 tutorial (x 9 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 75 hours		Guided independent study: 125 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Mrs D McGoldrick			
Lecturer(s)/Tutor(s):	Team taught			

MN1002 Organisations and Analysis				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm			
This module examines some of the main analytical approaches and techniques required by managers. It examines how managers can acquire and analyse business data and provides an introduction to financial accounting concepts and techniques. Finally, the integration of these approaches is developed by the use of a case study.				
Programme module type:	Compulsory for all Management and Management Science degrees			
Required for:	MN2001, MN2002			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures (x 8 weeks) and 1 tutorial (x 11 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 65 hours		Guided independent study: 135 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Mrs D McGoldrick			
Lecturer(s)/Tutor(s):	Team taught			

Management - 1000 & 2000 Level - 2016/7 - August 2016

MN2001 Management and Society				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm			
The multidisciplinary nature of management is reflected in this module. It examines the conceptual frameworks and techniques of Marketing and Organisational Behaviour which are complementary to one another in reflecting the organisation's relation to its internal and external environment. In doing so, the module will develop an understanding of the growth of Marketing and its role in management, give consideration to how the behaviour of individuals and groups in organisations may be understood and managed and also show how managers might better appreciate the markets and market forces they are committed to dealing with.				
Programme module type:	Compulsory for all Management and Management Science degrees			
Pre-requisite(s):	MN1001 and MN1002	Required for:	MN4227, MN4238	
Learning and teaching methods and delivery:	Weekly contact: 4 lectures (x 11 weeks) and 1 tutorial (x 8 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 74 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Mrs D McGoldrick			
Lecturer(s)/Tutor(s):	Team taught			

MN2002 Management and Analysis				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm			
This module comprises two components and further develops the analytical skills and insights required for Management. Firstly, The Management Kaleidoscope examines some of the alternative perspectives on Management and the changing policy and business environment for organisations. It will explore the emergence of alternative organisational forms, such as community ownership or co-operatives and look at the growth of hybrid organisational forms and practises. Secondly, the Analysis of Financial Data component seeks to engage with accounting from a broader sociological perspective through trying to make sense of the production and impact of accounting knowledge and the effects that it can have upon organisations and society alike. It will develop an understanding of accounting that is firmly rooted within the broader context of society and will highlight the way in which accounting figures are constructed, used and the effects they can have. A number of well-known financial techniques for analysing organisations are introduced.				
Programme module type:	Compulsory for all Management and Management Science degrees			
Pre-requisite(s):	MN1001 and MN1002 and MN2001	Required for:	MN4227, MN4238, MT3832	
Learning and teaching methods and delivery:	Weekly contact: 4 lectures (x 11 weeks) and 1 tutorial (x 8 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 74 hours		Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Mrs D McGoldrick			
Lecturer(s)/Tutor(s):	Team taught			

MN2112 Enterprise and Creativity				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Not available to First Year students.			
Planned timetable:	1.00 pm Tue and 1.00 pm Thu			
Enterprise and Creativity aims to give Second Level students across the university, the opportunity to learn how to develop a project by doing it. Enhancing their own creativity and enterprise skills, students will be working in teams to design and deliver an enterprising project. The success of the module relies on students taking a proactive role in managing their learning. The module will incorporate lectures, delivered by staff from different Schools, and tutorials where students will be expected to generate their own results, using the materials provided. This module is demanding but it will offer students a life-changing experience.				
Programme module type:	Available to any degree programme.			
Pre-requisite(s):	Must be in the Second year of any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 11 weeks) and 1 tutorial (x 8 weeks), and 2 optional consultative hours (x 11 weeks)			
	Scheduled learning: 52 hours		Guided independent study: 148 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	Ms B S Hacking			
Lecturer(s)/Tutor(s):	Team taught			

MN2901 The Effective Manager				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Thu 6.30 pm - 9.00 pm			
The underpinnings of effective management are considered in this module which provides students with the opportunity to examine critically the nature of contemporary thinking about management in organisations and the contexts within which it takes place. Students are encouraged to relate the content to their own management experience and practice and to develop a reflexive approach to their own management development. The module will feature an interactive style of teaching/learning which will emphasise small group work, practical exercises and discussions alongside the traditional lecture. Assessment for the module will be based on individual assignments that will emphasise the practical application of knowledge and understanding. There are no examinations for this module.				
Programme module type:	Evening Degree programme			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session (lecture, seminar, practical).			
	Scheduled learning: 50 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:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	M J Dowling			
Lecturer(s)/Tutor(s):	Team Taught			

School of Mathematics & Statistics

Mathematics & Statistics (MT) modules

MT1001 Introductory Mathematics				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
This module is designed to give students a secure base in elementary calculus to allow them to tackle the mathematics needed in other sciences. Students wishing to do more mathematics will be given a good foundation from which they can proceed to MT1002. Some of the work covered is a revision and reinforcement of material in the Scottish Highers and many A-Level syllabuses.				
Programme module type:	Compulsory for students on all programmes in the School who do not meet the direct entry requirements for MT1002. All other students should take MT1002 instead.			
Pre-requisite(s):	Higher or A-Level Mathematics (A/S level Mathematics with approval of Head of School).	Anti-requisite(s):	MT1003, CS1010	
Required for:	MT1002			
Learning and teaching methods and delivery:	Weekly contact: 5 lectures (weeks 1 - 10), 1 tutorial and 1 laboratory (weeks 2 -11).			
	Scheduled learning: 70 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: Written Examination = 90% (2-hour final exam = 70%, 2 class tests = 10% each), Coursework = 10%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr V Archontis			
Lecturer(s)/Tutor(s):	Dr V Archontis, Dr J N Reinaud, TBC			

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MT1002 Mathematics				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1 & 2 (taught twice)
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
This module is designed to introduce students to the ideas, methods and techniques which they will need for applying mathematics in the physical sciences or for taking the study of mathematics further. It aims to extend and enhance their skills in algebraic manipulation and in differential and integral calculus, to develop their geometric insight and their understanding of limiting processes, and to introduce them to complex numbers and matrices.				
Programme module type:	Compulsory for all programmes within the School. Compulsory for all single and joint BSc Management Science degree programmes and all programmes within the School of Physics & Astronomy (except Direct entry to Second year).			
Pre-requisite(s):	MT1001 or B at Advanced Higher Mathematics or B at A-Level Mathematics.	Anti-requisite(s):	EC1003	
Required for:	AS2001, MT1003, MT2501, MT2502, MT2503, MT2504, MT2505, MT3832, PH2011, PH2012			
Learning and teaching methods and delivery:	Weekly contact: 5 lectures (weeks 1 - 10), 1 tutorial and 1 laboratory (weeks 2 - 11).			
	Scheduled learning: 70 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: Written Examination = 90% (2-hour final exam = 70%, 2 class tests = 10% each), Coursework = 10%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof L Olsen			
Lecturer(s)/Tutor(s):	Prof L Olsen			

MT1003 Pure and Applied Mathematics				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
The aim of this module is to provide students with a taste of both pure and applied mathematics, to give them insight into areas available for study in later years and to provide them with the opportunity to broaden their mathematical experience.				
Programme module type:	Optional for all programmes within the School.			
Pre-requisite(s):	MT1002			
Required for:	MT3600, MT4514			
Learning and teaching methods and delivery:	Weekly contact: 5 lectures (weeks 1 - 10), 1 tutorial and 1 laboratory (weeks 2 - 11).			
	Scheduled learning: 70 hours		Guided independent study: 130 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%			
	As used by St Andrews: Written Examination = 90% (2-hour final exam = 70%, 2 class tests = 10% each), Coursework = 10%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr A L Wilmot-Smith			
Lecturer(s)/Tutor(s):	Dr A L Wilmot-Smith, Prof K J Falconer, Prof C E Parnell, Dr J J McDermott			

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MT1007 Statistics in Practice				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
<p>This module provides an introduction to statistical reasoning, elementary but powerful statistical methodologies, and real world applications of statistics. Case studies, such as building an optimal stock portfolio, and data vignettes are used throughout the module to motivate and demonstrate the principles. Students get hands-on experience exploring data for patterns and interesting anomalies as well as experience using modern statistical software to fit statistical models to data.</p>				
Programme module type:	Compulsory for all single and joint Honours BSc Management Science degree programmes Optional for all programmes in the School			
Pre-requisite(s):	An A grade at GCSE/Grade 1 at Standard Grade Mathematics or a C grade at AS level/Higher Mathematics.			
Required for:	MT3833, MT4551			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures (weeks 1 - 10), 1 tutorial and 1 laboratory (weeks 2 - 11).			
	Scheduled learning: 60 hours		Guided independent study: 140 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%, Existing Coursework = 25%			
Module Co-ordinator:	Dr M L Burt			
Lecturer(s)/Tutor(s):	Dr M L Burt, Dr H Worthington, Dr J B Illian			

MT1010 Topics in Mathematics: Problem-solving Techniques				
SCOTCAT Credits:	10	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to students on the Fast Track route through the MMath degree programme.			
Planned timetable:	10.00 am Mon (odd weeks), Wed and Fri			
<p>This module introduces some important basic concepts in mathematics and also explores problem-solving in the context of these topics. It is intended to strengthen the mathematical skills of an undergraduate entering on the Fast Track route into the MMath degree programme.</p>				
Programme module type:	Compulsory for MMath Fast Track degree programme			
Pre-requisite(s):	Admission onto the Fast Track MMath degree programme			
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour lecture, 1 practical and 1 tutorial (x 10 weeks)			
	Scheduled learning: 35 hours		Guided independent study: 65 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 1.5-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	1.5-hour Written Examination = 50%, Existing Coursework = 50%			
Module Co-ordinator:	Dr M Papatomas			
Lecturer(s)/Tutor(s):	Dr M Papatomas, Prof I Rivin, Dr A L Wilmot-Smith			

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MT2501 Linear Mathematics				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	1 & 2 (taught twice)
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri [Semester 1]; 11.00 am on Mon (even weeks), Tuesday and Thursday [Semester 2]			
<p>This module extends the knowledge and skills that students have gained concerning matrices and systems of linear equations. It introduces the basic theory of vector spaces, linear independence, linear transformations and diagonalization. These concepts are used throughout the mathematical sciences and physics.</p> <p>It is recommended that students in the Faculties of Arts and Divinity take an even number of the 15-credit 2000-level MT modules.</p>				
Programme module type:	Compulsory for all programmes in the School of Mathematics & Statistics. Compulsory for all programmes in the School of Physics & Astronomy. Compulsory for all single and joint BSc Management Science degree programmes.			
Pre-requisite(s):	MT1002, or A at Advanced Higher Mathematics, or A at A-level Further Mathematics, or A at both A-level Mathematics and A-level Physics			
Anti-requisite(s):	MT2001			
Required for:	MT3501, MT3802, MT3832, MT4515, MT4517			
Learning and teaching methods and delivery:	Weekly contact: 2.5-hours lectures (x 10 weeks), 1 tutorial (x 5 weeks), 1 examples class (x 5 week)			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework (including class test) = 30%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Sem 1: Dr S Huczynska; Sem 2: Dr A L Wilmot-Smith			
Lecturer(s)/Tutor(s):	Sem 1: Dr S Huczynska; Sem 2: Dr A L Wilmot-Smith, Dr S Huczynska			

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MT2502 Analysis				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am Mon (even weeks), Tue and Thu			
<p>The main purpose of this module is to introduce the key concepts of real analysis: limit, continuity and differentiation. Emphasis will be placed on the rigorous development of the material, giving precise definitions of the concepts involved and exploring the proofs of important theorems. This module forms the prerequisite for all later modules in mathematical analysis.</p> <p>It is recommended that students in the Faculties of Arts and Divinity take an even number of the 15-credit 2000-level MT modules.</p>				
Programme module type:	Compulsory for all MMath programmes. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT1002 or A at Advanced Higher Mathematics or A at A-level Further Mathematics	Anti-requisite(s):	MT2002	
Required for:	MT3502, MT3503, MT3600, MT4515, MT4526			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours lectures (x 10 weeks), 1-hour tutorial (x 5 weeks), 1-hour examples class (x 5 weeks)			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework (including 1 class test) = 30%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Todd			
Lecturer(s)/Tutor(s):	Dr M Todd			

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MT2503 Multivariate Calculus			
SCOTCAT Credits:	15	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	12 noon Mon (even weeks), Tue and Thu		
<p>This module extends the basic calculus in a single variable to the setting of real functions of several variables. It introduces techniques and concepts that are used throughout the mathematical sciences and physics: partial derivatives, double and triple integrals, surface sketching, cylindrical and spherical coordinates. It is recommended that students in the Faculties of Arts and Divinity take an even number of the 15-credit 2000-level MT modules.</p>			
Programme module type:	<p>Compulsory for all MMath programmes.</p> <p>Compulsory for BSc Mathematics & Physics and MPhys Mathematics & Theoretical Physics degree programmes.</p> <p>Compulsory for all single and joint Honours BSc/MA Statistics programmes.</p> <p>Compulsory for all programmes in the School of Physics & Astronomy.</p> <p>Optional for all other undergraduate programmes in the School of Mathematics & Statistics.</p>		
Pre-requisite(s):	MT1002, or A at Advanced Higher Mathematics, or A at A-level Further Mathematics, or A at both A-level Mathematics and A-level Physics, or Co-requisite MT1010	Anti-requisite(s):	MT2001
Required for:	MT2506, MT2507, MT3503, MT3504, MT3601, MT4507, MT4513, MT4551, MT4607		
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of lectures (x 10 weeks), 1-hour tutorial (x 5 weeks), 1-hour examples class (x 5 weeks)		
	Scheduled learning: 35 hours	Guided independent study: 115 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%</p>		
	<p>As used by St Andrews: 2-hour Written Examination = 70%, Coursework = 30% (including 1 class test)</p>		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Prof A W Hood		
Lecturer(s)/Tutor(s):	Prof A W Hood, Pr D G Dritschel		

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MT2504 Combinatorics and Probability				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
<p>This module provides an introduction to the study of combinatorics and finite sets and also the study of probability. It will describe the links between these two areas of study. It provides a foundation both for further study of combinatorics within pure mathematics and for the various statistics modules that are available.</p> <p>It is recommended that students in the Faculties of Arts and Divinity take an even number of the 15-credit 2000-level MT modules.</p>				
Programme module type:	Compulsory for all MMath programmes. Compulsory for all BSc/MA Statistics programmes. Compulsory for all single and joint BSc Management Science degree programmes. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT1002 or A at Advanced Higher Mathematics or A at A-level Further Mathematics, or Co-requisite MT1010	Anti-requisite(s):	MT2004 or MT2005	
Required for:	MT2508, MT3706, MT3833, MT4514, MT4516, MT4528, MT4551			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of lectures (x 10 weeks), 1-hour tutorial (x 5 weeks), 1-hour examples class (x 5 weeks)			
	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 Co-ordinator:	Dr C M Roney-Dougal			
Lecturer(s)/Tutor(s):	Dr C M Roney-Dougal, Prof D L Borchers			

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MT2505 Abstract Algebra				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am Mon (odd weeks), Wed and Fri			
<p>This main purpose of this module is to introduce the key concepts of modern abstract algebra: groups, rings and fields. Emphasis will be placed on the rigorous development of the material and the proofs of important theorems in the foundations of group theory. This module forms the prerequisite for later modules in algebra.</p> <p>It is recommended that students in the Faculties of Arts and Divinity take an even number of the 15-credit 2000-level MT modules.</p>				
Programme module type:	Compulsory for all MMath programmes. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT1002 or A at Advanced Higher Mathematics or A at A-level Further Mathematics	Anti-requisite(s):	MT2002	
Required for:	MT3505, MT3600, MT4003, MT4516, MT4517, MT4519			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of lectures (x 10 weeks), 1-hour tutorial (x 5 weeks), 1-hour examples class (x 5 weeks)			
	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 Co-ordinator:	Dr J D Mitchell			
Lecturer(s)/Tutor(s):	Dr J D Mitchell			

MT2506 Vector Calculus				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am Mon (even weeks), Tue and Thu			
<p>This module introduces students to some of the fundamental techniques that are used throughout the mathematical modelling of problems arising in the physical world such as grad, div and curl as well as cylindrical and spherical coordinate systems. Fundamental theorems such as Green's Theorem, Stokes' Theorem and Gauss's Divergence Theorem will also be studied. It provides the foundation for many of the modules available in applied mathematics later in the Honours programme.</p> <p>It is recommended that students in the Faculties of Arts and Divinity take an even number of the 15-credit 2000-level MT modules.</p>				
Programme module type:	Compulsory for all MMath programmes. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2503	Anti-requisite(s):	MT2003	
Required for:	MT3506, MT3601, MT4005, MT4509, MT4510			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of lectures (x 10 weeks), 1-hour tutorial (x 5 weeks), 1-hour examples class (x 5 weeks)			
	Scheduled learning: 35 hours		Guided independent study: 115 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 85%, Practical Examinations = 0%, Coursework = 15%			
	As used by St Andrews: 2-hour Written Examination = 70%, Coursework (including class test) = 30%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof I De Moortel			
Lecturer(s)/Tutor(s):	Prof I De Moortel, Dr J N Reinaud			

Mathematics & Statistics - 1000 & 2000 Level - 2016/7 - August 2016

MT2507 Mathematical Modelling				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon (odd weeks), Wed and Fri			
This module provides an introduction to a variety of techniques that are used throughout applied mathematics. It discusses how to translate physical problems into mathematics and covers such topics as differential equations, dynamics, numerical methods and Fourier series. It illustrates how these are used when solving problems. It is recommended that students in the Faculties of Arts and Divinity take an even number of the 15-credit 2000-level MT modules.				
Programme module type:	Compulsory for all MMath programmes. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2503	Anti-requisite(s):	MT2003	
Required for:	MT3601			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of lectures (x 10 weeks), 1-hour tutorial (x 5 weeks), 1-hour examples class (x 5 weeks)			
	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 Co-ordinator:	Prof M A J Chaplain			
Lecturer(s)/Tutor(s):	Prof M A J Chaplain, Dr T Lorenzi			

MT2508 Statistical Inference				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Mon (even weeks), Tue and Thu			
This module provides an introduction to the mathematical models of randomness. These models are used to perform statistical analysis, where the aim is to evaluate our uncertainty on a certain quantity after observing data. Important topics in statistics are described including maximum likelihood estimation, confidence intervals and hypothesis testing, permutation tests, and linear regression. It forms a prerequisite for the statistics modules in the Honours programme. It is recommended that students in the Faculties of Arts and Divinity take an even number of the 15-credit 2000-level MT modules.				
Programme module type:	Compulsory for all MMath programmes. Compulsory for all BSc/MA Statistics programmes. Compulsory for all single and joint Honours BSc Management Science programmes. Optional for all other undergraduate programmes in the School of Mathematics & Statistics.			
Pre-requisite(s):	MT2504	Anti-requisite(s):	MT2004 or EC2003	
Required for:	MT3507, MT3508, MT3606, MT3607, MT4113, MT4527, MT4530, MT4607, MT4608, MT4614			
Learning and teaching methods and delivery:	Weekly contact: 2.5 hours of lectures (x 10 weeks), 1-hour tutorial (x 5 weeks), 1-hour examples class (x 5 weeks)			
	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 Co-ordinator:	Dr M Papathomas			
Lecturer(s)/Tutor(s):	Dr M Papathomas			

School of Medicine

Medicine (MD) modules

MD2001 Foundations of Medicine 1				
SCOTCAT Credits:	60	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.			
Planned timetable:	To be arranged.			
<p>The medical course takes the form of an integrated spiral curriculum, where teaching in all relevant subjects is delivered grouped holistically or by systems and revisited with increasing complexity throughout the course. Foundations of Medicine 1 and 2 form the initial turn of the spiral in which fundamentally important knowledge is reviewed. During subsequent turns of the spiral, the topics covered in these two modules will be revisited at a more advanced level and with increasing clinical application. A series of core, introductory clinical cases illustrates the clinical context throughout Foundations of Medicine 1 and 2. Foundations of Medicine 1 provides a general overview of the structure and functions of the body systems from the microscopic to the macroscopic level: reviews molecular and cellular medicine; gives a preliminary introduction to medical ethics and communication skills relevant to medicine; uses clinical problems to develop an understanding of the levels of consciousness and the assessment of health status. The module also includes an anatomical overview of the major body systems and the dissection of the back.</p>				
Programme module type:	Compulsory for BSc Honours Medicine - not available to any other students			
Pre-requisite(s):	There will be direct entry into course for students approved by the Faculty Executive Group of Medicine.			
Required for:	MD3001, MD3002			
Learning and teaching methods and delivery:	Weekly contact: 10 Lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies, clinical and communication skills on a 2-week cycle including 1 x 2 hours session with volunteer patients. 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 Co-ordinator:	Dr A Hughes			

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MD2002 Foundations of Medicine 2			
SCOTCAT Credits:	60	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/10		
Availability restrictions:	Available only to students enrolled in the BSc Honours Medicine programme.		
Planned timetable:	To be arranged.		
<p>Foundations of Medicine 2 continues the introduction of fundamental topics into the curriculum including the principles of disease mechanisms and therapy, and the development of clinical and communication skills. Foundations of Medicine 2 provides an in-depth study of the musculo-skeletal system including nerve and muscle physiology, control of movement and the autonomic nervous system. The anatomy of the upper and lower limbs are studied by dissection. A particular focus for this module is the introduction of topics essential to the practise of medicine, including public health and health psychology. The clinical problems in this module centre on trauma, deep vein thrombosis and pathological fracture.</p>			
Programme module type:	Compulsory for BSc Honours Medicine - not available to any other students		
Pre-requisite(s):	There will be direct entry into course for students approved by the Faculty Executive Group of Medicine.		
Required for:	MD3001, MD3002		
Learning and teaching methods and delivery:	Weekly contact: 10 Lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies, clinical and communication skills on a 2-week cycle including 2 x 2 hour sessions with volunteer patients. 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. Attainment of competence in clinical skills appropriate to this stage of a medical curriculum as demonstrated in a pass/fail objective structured clinical exam (OSCE). Coursework will comprise a written examination totaling 25% of the module grade.%		
Re-Assessment pattern:	2 x 1.5-hour Written Examinations = 100%		
Module Co-ordinator:	Dr S Shirreffs		

MD2201 The Art of the Medical Practitioner				
SCOTCAT Credits:	5	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/12			
Availability restrictions:	Available only to students on the one-semester Pre-health Study Abroad programme.			
Planned timetable:	To be arranged.			
<p>This programme will be comprised of:</p> <ul style="list-style-type: none"> •A series of ten three-hour workshops, including practical demonstrations •Visits to a GP surgery where patients with specific conditions, including Orthopaedic, Respiratory, Neurological and Cardiovascular, will be presented and examined. <p>The workshops are designed to demonstrate “The Art of Medicine” and its practice in clinical and academic settings. Participants will be actively encouraged to develop their own powers of observation through examination of cadaveric pro-sections, medical X-ray investigations and clinical examination of patients.</p> <p>Topics covered include:</p> <ul style="list-style-type: none"> •How to take a patient history •Taking a history from simulated and volunteer patients •Patient journey and the effect of their conditions have had upon them (socially, financially, psychologically) •Importance of effective infection control (MRSA, pandemics etc.) •Essay topic •The anatomy of limbs and the thorax in the context of clinical disease presentations <p>By the end of the workshops, students will have developed skills in clinical communications. Workshops will underline the fundamental importance of understanding the basics so that one can diagnose conditions by building on the basic sciences whilst applying the art of the clinician.</p>				
Programme module type:	Available only to students on the one-semester Pre-health Study Abroad Programme - not available to any other students			
Pre-requisite(s):	Must be on the North American Pre-Health Study Abroad Programme			
Learning and teaching methods and delivery:	Weekly contact: 3-hour practical class (x 1 week), 3-hour tutorials (x 8 weeks), 3-hours of Field work (x 1 week)			
	Scheduled learning: 30 hours		Guided independent study: 20 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%			
	As used by St Andrews: Presentations = 50%, Coursework = 50%			
Re-Assessment pattern:				
Module Co-ordinator:	Dr A Collinson			
Lecturer(s)/Tutor(s):	Dr A Collinson, Prof A Parkin			

School of Modern Languages

Arabic (AR) modules

AR1001 Arabic for Beginners 1			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	11.00 am or, if timetable clash, 12.00 noon on Mon; 11.00 am or, if timetable clash, 12.00 noon Tue - Fri, or 4.00 pm, Tue, Thu, Fri and 9.00 am Wed, or 2.00 pm, Tue, Thu, Fri and 9 am Wed		
This module, together with AR1002, will enable students to read, write and converse in simple Modern Standard Arabic. It will cover the Arabic alphabet and writing system, and begin the study of Arabic grammar. A selection of non-literary modern Arabic texts will be read in class as the basis of language teaching, classroom drills, tests and written assignments and oral class work.			
Programme module type:	Compulsory for Arabic		
Anti-requisite(s):	Native Speaker of Arabic who is fluent in Modern Standard Arabic, a pass at Higher, A-Level or equivalent.		
Required for:	AR1002		
Learning and teaching methods and delivery:	Weekly contact: 5 language classes and 1 surgery hour.		
	Scheduled learning: 60 hours	Guided independent study: 140 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%, approximately 15-minute Practical Examination = 20%, Coursework = 40%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Mr M Whitehouse		
Lecturer(s)/Tutor(s):	Dr F Caiani, TBC, Mr M Whitehouse		

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AR1002 Arabic for Beginners 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am or, if timetable clash, 12.00 noon on Mon; 11.00 am or, if timetable clash, 12.00 noon Tue - Fri, or 3.00 pm Tue - Fri, or 4.00 pm, Tue, Thu, Fri and 9.00 am Wed			
This module will complete the work of AR1001 and prepare students for AR2001. It will cover the remaining points of Arabic grammar, using a selection of representative non-literary texts. Please note that this module is not designed for native or heritage speakers of Arabic.				
Programme module type:	Compulsory for Arabic			
Pre-requisite(s):	AR1001	Required for:	AR2001	
Anti-requisite(s):	Native Speaker of Arabic who is fluent in Modern Standard Arabic.			
Learning and teaching methods and delivery:	Weekly contact: 5 language classes and 1 surgery hour.			
	Scheduled learning: 66 hours		Guided independent study: 134 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%, approximately 15-minute Practical Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Mr M Whitehouse			
Lecturer(s)/Tutor(s):	Dr F Caiani, TBC, Mr M Whitehouse			

AR2001 Intermediate Arabic 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am. If timetable clash, 2.00 pm Wed, Thu and Fri, or 4.00 pm Wed, Thu and Fri			
This module, together with AR2002, will enable students to read and write Modern Standard Arabic to intermediate level with the aid of a dictionary, and to speak in standard Arabic on appropriate topics with a limited vocabulary. Oral work and written class work will be based on a series of texts selected for their relevance to the understanding of contemporary issues and culture.				
Programme module type:	Compulsory for Arabic			
Pre-requisite(s):	AR1002			
Required for:	AR2002			
Learning and teaching methods and delivery:	Weekly contact: 5 language classes and 1 surgery hour.			
	Scheduled learning: 60 hours		Guided independent study: 140 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%, approximately 15-minute Practical Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr F Caiani			
Lecturer(s)/Tutor(s):	Dr F Caiani TBC, Mr M Whitehouse			

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AR2002 Intermediate Arabic 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am. If timetable clash, 10.00 am Wed, 2.00 pm Thu and Fri, or 4.00 pm Wed, Thu and Fri			
This module continues the work of AR2001 and prepares students for Honours modules in Arabic. In tutorials, applied language work uses passages from contemporary and modern writings, selected for their relevance to the understanding of contemporary issues, language and thought. In classes/lectures, representative literary texts provide an introduction to key themes in Arabic culture.				
Programme module type:	Compulsory for Arabic			
Pre-requisite(s):	AR2001			
Required for:	AR3201			
Learning and teaching methods and delivery:	Weekly contact: 5 language/text classes and 1 surgery hour.			
	Scheduled learning: 66 hours		Guided independent study: 134 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%, approximately 15-minute Practical Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr F Caiani			
Lecturer(s)/Tutor(s):	Dr F Caiani, TBC, Mr M Whitehouse			

AR2004 Introduction to Classical Arab Culture				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am Mon, Tue and Thu			
This module aims to give an introduction to classical Arab culture by exploring the intellectual history of the Arab world and the context of its development during the early and classical period (6th-15th centuries). The course will cover subjects such as the history of the Arabian Peninsula up until Abbasid times; the Arabic language, its history, script and literature; the Qur'an, its style and content; Islamic theology and philosophy; science and knowledge in Islam; and Islamic art and architecture.				
Programme module type:	Optional module available to all students.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 surgery hour			
	Scheduled learning: 40 hours		Guided independent study: 160 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Elmaz			
Lecturer(s)/Tutor(s):	Dr O Elmaz			

Comparative Literature (CO) modules

CO1001 The Nineteenth-Century Novel				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	1.00 pm			
This module introduces students to the study of Comparative Literature through nineteenth-century novels from France, Germany, Italy, Russia, Spain, the UK and the USA. All the texts will be read in English translation. The aim of the module is to introduce students to a representative and canonical range of fictional works, with focus on one literary genre - the novel - and one over-arching theme. The theme will change depending on staff availability, but for the immediate future will be 'The Novel of Adultery'. Lecturers, seminar leaders and secondary criticism will all model a variety of comparative approaches for students and promote discussion of the discipline.				
Programme module type:	CO1001 or CO1002 is compulsory for Comparative Literature. Either CO1001 or EN1003 is a compulsory module for English.			
Required for:	CO2001			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 seminar, 1 surgery hour.			
	Scheduled learning: 50 hours		Guided independent study: 150 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Lawson			
Lecturer(s)/Tutor(s):	Team taught			

CO1002 Drama in the Twentieth and Twenty-first Centuries				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	1.00 pm			
This module introduces students to the study of Comparative Literature through plays written in the twentieth and twenty-first century from France, Germany, Iran, Italy, Russia, Spain, the UK and the USA. All the texts will be read in English translation. The aim of the module is to introduce students to a representative and canonical range of fictional works, with focus on one literary genre - drama - and one over-arching theme. The theme will change depending on staff availability, but for the immediate future will be 'Staging the Political'. Lecturers, seminar leaders and secondary criticism will all model a variety of comparative approaches for students and promote discussion of the discipline and potential directions for further study at sub-honours and honours degree level.				
Programme module type:	CO1001 or CO1002 is compulsory for Comparative Literature. Either CO1002 or EN1004 is a compulsory module for English.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 seminar, 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof M-A Hutton			
Lecturer(s)/Tutor(s):	Team taught			

CO2001 Good and Evil				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	1.00 pm			
<p>This module will provide students with the opportunity to develop skills acquired at Level 1 of the comparative literature core programme, whilst introducing them to a range of texts in which the theme of 'Good & Evil' will be explored. This theme will provide a broad platform to investigate issues of morality and identity, and relationships between literature, religion, and psychology.</p> <p>Students will be reading texts originally written in a range of languages (Arabic, English, French, German, Italian, Russian and Spanish), of various genres (e.g. novels, short stories, essays, letters, film), produced between the thirteenth and the twenty-first century. They will be encouraged to reflect on the cultural, intellectual and philosophical paradigms influencing the evolution of notions of good and evil, and on the historical circumstances which determined them. These will in turn form the basis of the comparative analysis of the different ways in which Good and Evil are perceived and represented in the texts considered. Linguistic and stylistic features, structural and genre-related aspects, and issues raised by translation will form an integral part of the module.</p>				
Programme module type:	Compulsory for Comparative Literature			
Pre-requisite(s):	CO1001 or CO1002			
Required for:	CO2002			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 seminar, 1 surgery hour.			
	Scheduled learning: 50 hours		Guided independent study: 150 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Bond			
Lecturer(s)/Tutor(s):	Team taught			

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CO2002 Journeys			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	1.00 pm		
<p>This module will provide students with the opportunity to develop skills acquired at Level 1 of the comparative literature programme, whilst introducing them to a range of texts - both canonical and non-canonical - offering variants on the theme of 'Journeys'. As a topos which lends itself to several layers of interpretation, 'Journeys' will provide a platform for students to explore concepts such as (inter-cultural) identity, alterities, encounters, in 'real' as well as imaginary travels or journeys. Students will be reading texts originally written in a range of languages (Arabic, English, French, German, Italian, Persian, Russian and Spanish), of various genres (e.g. novels, diaries, letters, essays, poetry), written between the thirteenth and the twenty-first century, and will be encouraged to reflect on the similarities and differences between the narrative treatment of journeys to specific geographic locations. As with all comparative modules, the importance of form, and the role of translation in its linguistic and cultural sense, will remain at the centre of all discussions.</p>			
Programme module type:	Compulsory for Comparative Literature		
Pre-requisite(s):	CO2001		
Required for:	Honours Entry		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 seminar, 1 surgery hour.		
	Scheduled learning: 55 hours	Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	TBC		
Lecturer(s)/Tutor(s):	Team taught		

French (FR) modules

FR1001 French Language and Literature 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
This module aims to bridge the gulf between school and university French studies by developing the language skills of post A-Level/Higher entrants and offering them a grounding in the literary and cultural tradition in France. In particular, it aims to ensure grammatical competence and promote comprehension and production in both written and spoken modes, and to teach the reading of French literary texts in their socio-cultural context and develop basic skills of literary criticism.				
Programme module type:	Compulsory for all degrees including French			
Pre-requisite(s):	Higher, SYS or A-Level French (or European equivalent, or International Baccalaureat, or AP score of 4 or 5, or SATII score of 700+).			
Required for:	FR1002			
Learning and teaching methods and delivery:	Weekly contact: 4 hours and 1 surgery hour.			
	Scheduled learning: 50 hours		Guided independent study: 150 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr K Jones			

FR1002 French Language and Literature 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
This module aims to ensure grammatical competence and promote comprehension and production in written and spoken modes, and to teach the reading of French literary texts in their socio-cultural background and develop basic skills of literary criticism, building on FR1001.				
Programme module type:	Compulsory for all degrees including French			
Pre-requisite(s):	FR1001			
Required for:	FR2201			
Learning and teaching methods and delivery:	Weekly contact: 4 hours and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

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FR2201 Second Level French Language (1)				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	To be arranged.			
This module has been designed to consolidate and extend the analytical and linguistic skills you have acquired at First level. You will understand better how the language works, how it is used and how to analyse it. You will also develop your skills in spoken, aural and written French for a variety of academic and communication purposes and in different cultural contexts. This will prepare you directly for the linguistic requirements of the year abroad as well as the analytical skills required at honours level.				
Programme module type:	Compulsory for all degrees including French			
Pre-requisite(s):	FR1002	Anti-requisite(s):	FR2021, FR2022, FR2031, FR2032	
Required for:	FR2202			
Learning and teaching methods and delivery:	Weekly contact: 2 hours of seminars (x 10 weeks) and 1 surgery hour.			
	Scheduled learning: 31 hours		Guided independent study: 60 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 1.5-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	1.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Rimbart			
Lecturer(s)/Tutor(s):	Team taught			

FR2202 Second Level French Language (2)				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	To be arranged.			
The Second level language course has been designed to consolidate and extend the analytical and linguistic skills you have acquired at First level and in FR2201. You will understand better how the language works, how it is used and how to analyse it. You will also develop your skills in spoken, aural and written French for a variety of academic and communication purposes and in different cultural contexts. This will prepare you directly for the linguistic requirements of the year abroad as well as the analytical skills required at honours level.				
Programme module type:	Compulsory for all degrees including French			
Pre-requisite(s):	FR2201	Anti-requisite(s):	FR2021, FR2022, FR2031, FR2032	
Learning and teaching methods and delivery:	Weekly contact: 2 hours of seminars (x 10 weeks) and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 67 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 30%, Coursework = 30%			
	As used by St Andrews: 1-Hour Written Examination = 40% Oral Examination = 30%, Coursework = 70%			
Re-Assessment pattern:	1.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr O Rimbart			
Lecturer(s)/Tutor(s):	Team taught			

FR2203 French Civilisation: from the Middle Ages to the Age of Enlightenment				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Wed			
<p>This module will focus on the roots of France's culture and on the evolution of its national identity. The variety of material you will be given will help you to extend both your command of the language and your knowledge of French history and culture from the Middle Ages to the Age of Enlightenment. Both lectures and tutorials will be taught in French, and seminars will be focused on the study of textual and visual documents providing insights into the period being studied. They will provide solid foundation for content modules being offered at Honours level.</p>				
Programme module type:	40 credits in 2000-level French is Compulsory for French and Classics, Biology with French, Chemistry with French, Chemistry with French and External Placement, all Three-Subject degrees including French.			
Pre-requisite(s):	FR1002	Anti-requisite(s):	FR2021, FR2022, FR2031, FR2032	
Co-requisite(s):	FR2201			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 8 weeks), 1-hour seminar (x 7 weeks) and 1 surgery hour.			
	Scheduled learning: 28 hours		Guided independent study: 72 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 1-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	1-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Carson			
Lecturer(s)/Tutor(s):	Team taught			

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FR2204 French Civilisation: from the Nineteenth to the Twenty-first Century			
SCOTCAT Credits:	10	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	12.00 noon Wed		
<p>This module will focus on the development of France's culture and on the evolution of its national identity since the French Revolution of 1789. The variety of material you will be given will help you to extend both your command of the language and your knowledge of French history and culture in the modern period. Both lectures and seminars will be taught in French, and seminars will be focused on the study of textual and visual documents providing insights into the topics studied. It will provide solid foundation for content modules being offered at Honours level.</p>			
Programme module type:	40 credits in 2000-level French is Compulsory for French and Classics, Biology with French, Chemistry with French, Chemistry with French and External Placement, all Three-Subject degrees including French.		
Pre-requisite(s):	FR2201	Anti-requisite(s):	FR2021, FR2022, FR2031, FR2032
Co-requisite(s):	FR2202		
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 8 weeks), 1-hour seminar (x 7 weeks) and 1 surgery hour.		
	Scheduled learning: 28 hours	Guided independent study: 72 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 1-hour Written Examination = 60%, Coursework = 40%		
Re-Assessment pattern:	1-hour Written Examination = 100%		
Module Co-ordinator:	TBC		
Lecturer(s)/Tutor(s):	Team taught		

FR2205 French Literature: from the Middle Ages to the Age of Enlightenment				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon Tue			
<p>This module will focus on the roots of France's literature and its evolution through the medieval and early modern periods. This module aims at giving you a sample of French writing through a focus on major authors of the past. In the texts to be studied for this module, you will find many human problems and foibles explored within different conventions and contexts, whilst also focusing on the development of a national literature. Both lectures and seminars will be taught in French. They will provide solid foundation for content modules being offered at Honours level.</p>				
Programme module type:	40 credits in 2000-level French is Compulsory for French and Classics, Biology with French, Chemistry with French, Chemistry with French and External Placement, all Three-Subject degrees including French.			
Pre-requisite(s):	FR1002	Anti-requisite(s):	FR2021, FR2022, FR2031, FR2032	
Co-requisite(s):	FR2201			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 9 weeks), 1-hour seminar (x 8 weeks) and 1 surgery hour .			
	Scheduled learning: 28 hours		Guided independent study: 72 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 1-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	1-hour Written Examination = 100%			
Module Co-ordinator:	Dr V Turner			
Lecturer(s)/Tutor(s):	Team taught			

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FR2206 French Literature: from the Nineteenth to the Twenty-first Century			
SCOTCAT Credits:	10	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	12.00 noon Tue		
This module will focus on the development of French literature since the French Revolution of 1789 to the present day. This module aims at giving you a sample of modern French writing through a focus on major authors. In the texts to be studied for this module, you will find many human problems and foibles explored within different conventions and contexts. Both lectures and seminars will be taught in French. They will provide solid foundation for content modules being offered at Honours level.			
Programme module type:	40 credits in 2000-level French is Compulsory for French and Classics, Biology with French, Chemistry with French, Chemistry with French and External Placement, all Three-Subject degrees including French.		
Pre-requisite(s):	FR2201	Anti-requisite(s):	FR2021, FR2022, FR2031, FR2032
Co-requisite(s):	FR2202		
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture (x 9 weeks), 1-hour seminar (x 6 weeks) and 1 surgery hour.		
	Scheduled learning: 28 hours	Guided independent study: 72 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 1-hour Written Examination = 60%, Coursework = 40%		
Re-Assessment pattern:	1-hour Written Examination = 100%		
Module Co-ordinator:	Dr M Ganofsky		
Lecturer(s)/Tutor(s):	Team taught		

German (GM) modules

GM1001 First Level German A 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm			
<p>The module, which lays the foundation for study of German language and literature at university level, is designed for students of German as a foreign language. Two weekly language classes and self-access computer-assisted language practice aim to develop speaking, reading and writing skills and grammatical competence, using materials which cover aspects of contemporary German society and culture. Weekly lectures and seminars will give students an introduction to German studies. They will familiarise students with techniques of understanding and analysing a variety of texts - narrative, poetic and historical - as well as linguistic patterns and literature of the middle ages. Please note that this module is not designed for native or heritage speakers of German.</p>				
Programme module type:	Optional for all degrees involving German.			
Pre-requisite(s):	SCE Higher or A-Level German or equivalent			
Required for:	GM1002			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar, 2 language classes, CALL classroom work and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau K Mericka			
Lecturer(s)/Tutor(s):	Team taught			

GM1002 First Level German A 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm			
<p>This module builds on the foundation study of German language and literature in Module GM1001. Language classes and CALL practice will further develop speaking, reading and writing skills and grammatical competence, using materials which cover aspects of contemporary German society and culture. Lectures and seminars extend the study of modern literary texts, helping students to develop further their reading and analytical skills and placing the texts in their social and cultural historical context. Please note that this module is not designed for native or heritage speakers of German.</p>				
Programme module type:	Optional for all degrees involving German			
Pre-requisite(s):	GM1001			
Required for:	GM2001, GM2003			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar, 2 language classes, CALL classroom work and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau K Mericka			
Lecturer(s)/Tutor(s):	Team taught			

Modern Languages - 1000 & 2000 Level - 2016/7 - August 2016

GM1003 First Level German B 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm			
<p>The module provides the first half of an intensive language programme for beginners and those with Standard Grade or GCSE German. Students taking the module are strongly advised to proceed to module GM1004 in the second semester. Completion of the two modules can provide a one-year foundation for those students looking for an ancillary language skill, or it can lead to entry into the Second Level German course and subsequently to an Honours degree in German. The emphasis will be primarily on the acquisition of competence in the German language, both written and spoken, and activities in class will combine the teaching of grammar with the development of communicative competence and written skills.</p>				
Programme module type:	Optional for all degrees involving German			
Anti-requisite(s):	Native speaker of German, a pass at Higher, A-Level or equivalent			
Required for:	GM1004			
Learning and teaching methods and delivery:	Weekly contact: 4 language classes and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau K Mericka			
Lecturer(s)/Tutor(s):	Team taught			

GM1004 First Level German B 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm			
<p>The module represents the second half of the intensive language courses for beginners and those with intermediate qualifications. Completion of this module and Module GM1003 can provide a one-year foundation for those seeking an ancillary language skill, or lead to entry into the Second Level German class and subsequently to an Honours degree in German. The module builds on the work done in Module GM1003. Students complete the second half of a one-year course in modern German and continue to develop their linguistic skills, both written and oral. There is at this stage also some study of selected German literary texts. Please note that this module is not designed for native or heritage speakers of German.</p>				
Programme module type:	Optional for all degrees involving German			
Pre-requisite(s):	GM1003			
Required for:	GM2007, GM2009			
Learning and teaching methods and delivery:	Weekly contact: 4 language classes and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau K Mericka			
Lecturer(s)/Tutor(s):	Team taught			

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GM2001 Second Level German A 1				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
The module aims to further the written and spoken language skills and the ability to read and analyse literary texts acquired by students in GM1001 and GM1002. It continues the pre-honours coverage of German as a university subject by extending students' knowledge of the literature of Germany in the Middle Ages and of the eighteenth and nineteenth centuries, as well as German linguistics. Language classes will concentrate on practice in writing German, grammar as well as oral and aural competence.				
Programme module type:	40 credits in 2000-level German is Compulsory for all German Degrees - See programme requirements for specific combinations which are allowed.			
Pre-requisite(s):	GM1002	Anti-requisite(s):	GM2003	
Required for:	GM2002, GM2004			
Learning and teaching methods and delivery:	Weekly contact: 6 hours and 1 surgery hour.			
	Scheduled learning: 77 hours		Guided independent study: 223 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

GM2002 Second Level German A 2				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am			
This module builds on the language and literary studies in module GM2001 and completes the pre-honours presentation of core areas of German as a university subject with the extension of students' knowledge of modern literature of the twentieth century and contemporary German linguistics. Language classes will continue to concentrate on written skills, including translation and the production of practical text types such as letters, reports and applications and will further promote students' oral communicative skills.				
Programme module type:	40 credits in 2000-level German is Compulsory for all German Degrees - See programme requirements for specific combinations which are allowed.			
Pre-requisite(s):	GM2001 or GM2003	Anti-requisite(s):	GM2004	
Learning and teaching methods and delivery:	Weekly contact: 6 hours and 1 surgery hour.			
	Scheduled learning: 77 hours		Guided independent study: 223 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

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GM2003 Second Level German Language A 1				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	To be arranged.			
This module builds on modules GM1001 and GM1002, and consists of the German Language element of module GM2001. It provides practice in writing skills and the extension of students' knowledge of grammar. Language classes also develop competence in listening and speaking and extend students' awareness of contemporary German.				
Programme module type:	40 credits in 2000-level German is Compulsory for all German Degrees - See programme requirements for specific combinations which are allowed.			
Pre-requisite(s):	GM1002	Anti-requisite(s):	GM2001	
Required for:	GM2002, GM2004			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 67 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 1-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

GM2004 Second Level German Language A 2				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am Mon and to be arranged.			
This module aims to enhance further students' skills in written and spoken German and their knowledge of contemporary German, using the language element of module GM2002.				
Programme module type:	40 credits in 2000-level German is Compulsory for all German Degrees - See programme requirements for specific combinations which are allowed.			
Pre-requisite(s):	GM2001 or GM2003	Anti-requisite(s):	GM2002	
Learning and teaching methods and delivery:	Weekly contact: 2 and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 67 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 1-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

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GM2007 Second Level German Language B 1				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	To be arranged.			
This module is designed to provide intensive language study for students who have completed the first level beginners/near beginners modules GM1003 and GM1004. It aims to develop language competence through written and spoken language classes, with reading and oral and written discussion of texts, writing exercises, including essays and letters, practice in speaking and listening, and revision of aspects of grammar. Students are expected to use CALL programmes on a self-access basis.				
Programme module type:	40 credits in 2000-level German is Compulsory for all German Degrees - See programme requirements for specific combinations which are allowed.			
Pre-requisite(s):	GM1004	Anti-requisite(s):	GM2009	
Required for:	GM2008, GM2010			
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 67 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 1-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

GM2008 Second Level German Language B 2				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	To be arranged.			
Building on module GM2007, the module aims to provide further intensive language study for students who took the First Level (Beginners) modules. It continues to develop reading, analytical, writing, listening and speaking skills and grammatical competence. CALL programmes are a prescribed part of the course.				
Programme module type:	40 credits in 2000-level German is Compulsory for all German Degrees - See programme requirements for specific combinations which are allowed.			
Pre-requisite(s):	GM2007 or GM2009	Anti-requisite(s):	GM2010	
Learning and teaching methods and delivery:	Weekly contact: 2 hours and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 67 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 1-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

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GM2009 Second Level German B 1				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am Tue, Wed, Thu and to be arranged.			
The module is designed for students who have taken the First Level B modules GM1003 and GM1004 and prepares them for entry to Honours courses by intensive language work and by introducing them to the study of modern and mediaeval literature. It aims to develop language competence through written and spoken language classes, with reading and oral and written discussion of texts, writing exercises, including essays and letters, practice in speaking and listening, and revision of aspects of grammar. Students are expected to use CALL programmes on a self-access basis. Lectures and seminars on works by modern authors will develop literary skills. Lectures and seminars on mediaeval literature will help students acquire reading competence and awareness of the literary culture of the Middle Ages.				
Programme module type:	40 credits in 2000-level German is Compulsory for all German Degrees - See programme requirements for specific combinations which are allowed.			
Pre-requisite(s):	GM1004	Anti-requisite(s):	GM2007	
Required for:	GM2008, GM2010			
Learning and teaching methods and delivery:	Weekly contact: 6 hours and 1 surgery hour.			
	Scheduled learning: 77 hours		Guided independent study: 223 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

GM2010 Second Level German B 2				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am Tue, Wed, Thu and Fri and to be arranged.			
This module builds on the language and Building on GM2009, the module aims to provide further intensive language study for students who took the First Level B modules. It continues to develop reading, analytical, writing, listening and speaking skills and grammatical competence. CALL programmes are a prescribed part of the course. The literature course will be based on texts by modern authors. An introduction to German linguistics will complete a pre-honours coverage of German as a university subject.				
Programme module type:	40 credits in 2000-level German is Compulsory for all German Degrees - See programme requirements for specific combinations which are allowed.			
Pre-requisite(s):	GM2009 or GM2007	Anti-requisite(s):	GM2008	
Learning and teaching methods and delivery:	Weekly contact: 6 hours and 1 surgery hour.			
	Scheduled learning: 77 hours		Guided independent study: 223 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Frau I Hartung			
Lecturer(s)/Tutor(s):	Team taught			

Italian (IT) modules

IT1001 Introduction to Italian Language				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Fortnightly lectures 10.00 am Mon (beginning week 2) plus language classes normally meeting at 10.00 am or 11.00 am, or 12.00 noon Mon-Fri			
This module is the normal entry point which leads to Honours Italian for beginners in Italian. It is designed for students with no prior experience of Italian and does not assume any knowledge of the language. The course is intensive and proceeds quickly. It concentrates on grammar and usage through reading, writing, listening and speaking. Computer Assisted Language Learning (CALL) materials are also used to supplement classes and assessments. Please note that this module is not designed for native speakers of Italian.				
Programme module type:	Either (IT1001 and IT1002) or (IT1003 and IT1004) are compulsory for Italian			
Anti-requisite(s):	Native speaker of Italian, a pass at Higher, A-Level or equivalent			
Required for:	IT1002			
Learning and teaching methods and delivery:	Weekly contact: 3-4 language classes and 1 surgery hour (x 10) and 1 x 1-hour lecture/seminar on aspects of Italian history and culture per fortnight.			
	Scheduled learning: 50 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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Wilson			
Lecturer(s)/Tutor(s):	Italian Department staff and Italian Language Tutors			

IT1002 Italian Language (Elementary)				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Fortnightly lectures 10.00 am Mon (beginning week 2) plus language classes/culture seminar normally meeting at 10.00 am or 11.00 am, or 12.00 noon Mon - Thu			
The module builds on Module IT1001 and continues its basic aims by increasing the students' knowledge of and ability to use Italian. In this module one hour per week is dedicated to oral practice and students will be introduced to aspects of Italian culture. Please note that this module is not designed for native speakers of Italian.				
Programme module type:	Either (IT1001 and IT1002) or (IT1003 and IT1004) are compulsory for Italian			
Pre-requisite(s):	IT1001 or Higher Italian or its equivalent			
Required for:	IT2001			
Learning and teaching methods and delivery:	Weekly contact: 1 oral class, 2 language classes, 1 culture lecture/seminar, and 1 surgery hour (x 10 weeks).			
	Scheduled learning: 55 hours		Guided independent study: 145 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%, Practical Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr R Wilson			
Lecturer(s)/Tutor(s):	Italian Department staff and Italian Language Tutors			

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IT1003 Italian Language Intermediate 1				
SCOTCAT Credits:	10	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	By arrangement - normally 3.00 pm			
This module and its co-requisite provide a thorough and consistently structured revision of grammar and a consolidation of speaking, reading, writing skills through formal grammar classes, practical oral language classes. Please note that this module is not designed for native speakers of Italian.				
Programme module type:	Either (IT1001 and IT1002) or (IT1003 and IT1004) are compulsory for Italian			
Pre-requisite(s):	A-Level or Higher Italian. A pass mark in an additional, departmental entrance test would allow access also to students with a slightly lower qualification (e.g. GCSE, etc.)			
Co-requisite(s):	IT1013	Required for:	IT1004	
Learning and teaching methods and delivery:	Weekly contact: 3 classes and 1 surgery hour.			
	Scheduled learning: 40 hours		Guided independent study: 60 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%			
	As used by St Andrews: Coursework = 100% (20% Oral test, 80% Continuous assessment)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms S Triggiano			

IT1004 Italian Language Intermediate 2				
SCOTCAT Credits:	10	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	By arrangement			
Building on IT1003, this module and its co-requisite provide a thorough revision of grammar and a consolidation of speaking, reading and writing skills through formal grammar classes and practical oral language classes. Please note that this module is not designed for native speakers of Italian.				
Programme module type:	Either (IT1001 and IT1002) or (IT1003 and IT1004) are compulsory for Italian			
Pre-requisite(s):	IT1003			
Co-requisite(s):	IT1014	Required for:	IT2001	
Learning and teaching methods and delivery:	Weekly contact: 3 classes and 1 surgery hour			
	Scheduled learning: 44 hours		Guided independent study: 56 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 10%, Coursework = 30%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40% (10% Oral test, 30% Continuous assessment)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms S Triggiano			
Lecturer(s)/Tutor(s):	Ms S Triggiano			

IT1013 Italian Geographies				
SCOTCAT Credits:	10	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Fortnightly lectures 10.00 am Mon (beginning week 2); other classes to be arranged.			
This module aims to give students some sense of the complexity of modern Italy through the study of particular cultural phenomena which have played an important role in national identity formation. The module will look at a range of different texts which explore key moments in twentieth century Italian culture. Students will gain a good understanding of the events and how Italian culture has chosen to make sense of them in different media.				
Programme module type:	Optional for Italian			
Co-requisite(s):	IT1003 or IT2001			
Learning and teaching methods and delivery:	Weekly contact: 2 classes and 1 surgery hour.			
	Scheduled learning: 30 hours		Guided independent study: 70 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr R Riccobono			
Lecturer(s)/Tutor(s):	Dr R Riccobono			

IT1014 Italian Histories				
SCOTCAT Credits:	10	SCQF Level 7	Semester:	2
Academic year:	2016/17 & 2017/8			
Planned timetable:	To be arranged.			
This module will give students a sense of the complexity of Italy's past through the study of literary texts from different historical periods considered in their different contexts.				
Programme module type:	Optional for Italian			
Co-requisite(s):	IT1004 or IT2002			
Learning and teaching methods and delivery:	Weekly contact: 2 classes and 1 surgery hour.			
	Scheduled learning: 33 hours		Guided independent study: 67 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Written Coursework = 100%			
Module Co-ordinator:	Dr R Riccobono			
Lecturer(s)/Tutor(s):	Dr R Riccobono			

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IT2001 Second Level Italian				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	5.00 pm Tue lecture. Seminar class and language classes to be arranged.			
This Second Level Italian module aims at further developing the language skills acquired in First level Italian modules, and at enabling students to achieve an intermediate level in reading, writing, listening and speaking in Italian. The module also introduces students to diverse elements of Italian culture (film and literature) and language used in different periods.				
Programme module type:	Compulsory for Italian			
Pre-requisite(s):	IT1002 or IT1004			
Required for:	IT2002			
Learning and teaching methods and delivery:	Weekly contact: 3 language classes, 1 culture lecture, 1 culture seminar and 1 surgery hour.			
	Scheduled learning: 60 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: Coursework = 100% (15% Oral test, 85% culture essays and language work)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof D Duncan			

IT2002 Second Level Italian (Advanced)				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	5.00 pm Tue lecture. Seminar class and language classes to be arranged.			
This module offers an intermediate language course for students who have passed IT 2001. It is designed to (1) further consolidate students' knowledge of Italian grammar, idiom and vocabulary, (2) refine their language skills and (3) develop their communication skills both oral and written through a graded oral programme related to Italian history and culture. Students will continue their study of mediaeval and modern Italian culture.				
Programme module type:	Compulsory for Italian			
Pre-requisite(s):	IT2001			
Required for:	IT3001			
Learning and teaching methods and delivery:	Weekly contact: 3 language classes, 1 culture lecture, 1 culture seminar and 1 surgery hour.			
	Scheduled learning: 66 hours		Guided independent study: 134 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 35%, Practical Examinations = 15%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 35%, Coursework = 65% (40% essays and 25% language work)			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof D Duncan			
Lecturer(s)/Tutor(s):	TBC			

Persian (PR) Modules

PR1001 Persian for Beginners 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon to Fri			
This is a beginner's level language module, which teaches the skills of reception (reading and listening) and production (speaking and writing) in Persian. The aim is to familiarise students with the spoken and written forms of Persian, to enable them to express themselves in writing, role-play and basic dialogues, and to begin to read basic authentic texts. Please note that this module is not designed for native or heritage speakers of Persian.				
Programme module type:	Compulsory for Persian Available to any other degree programme.			
Anti-requisite(s):	Native speaker of Persian, a pass at Higher, A-Level or equivalent.			
Required for:	PR1002			
Learning and teaching methods and delivery:	Weekly contact: 5 language classes and 1 surgery hour.			
	Scheduled learning: 60 hours		Guided independent study: 140 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%, approximately 15-minute Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Ghorbankarimi			
Lecturer(s)/Tutor(s):	Dr M Ghorbankarimi			

PR1002 Persian for Beginners 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon to Fri			
This module is a continuation of PR1001, developing reception skills (reading and listening), and language production (speaking and writing) in Persian. It also provides an introduction to elementary translation between Persian and English. Please note that this module is not designed for native or heritage speakers of Persian.				
Programme module type:	Compulsory for Persian Available to any other degree programme.			
Pre-requisite(s):	PR1001			
Required for:	PR2001			
Learning and teaching methods and delivery:	Weekly contact: 5 language classes and 1 surgery hour.			
	Scheduled learning: 66 hours		Guided independent study: 134 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%, approximately 15-minute Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Ghorbankarimi			
Lecturer(s)/Tutor(s):	Dr M Ghorbankarimi			

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PR2001 Intermediate Persian 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	1.00 pm Mon to Fri			
This is the first of the two intermediate level Persian modules. Students will develop skills to read more sophisticated texts written in the target language and translate them into English. They will also consolidate their understanding of Persian grammar and learn how to use it in reading, listening, speaking and writing. They will be introduced to vocabulary from a wider range of topics and will be able to hold longer conversations about those topics. They will be exposed to some basic classical Persian literature. By the end of the module the students are expected to be competent in: a) Conversation at an intermediate level on a variety of topics (modern events and Iranian culture); b) The discussion of a range of general topics and c) Reading and translating modern standard Persian texts from newspapers, short stories, etc.				
Programme module type:	Compulsory for Persian Available to any degree programme.			
Pre-requisite(s):	PR1002			
Required for:	PR2002			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 1 surgery hour.			
	Scheduled learning: 60 hours		Guided independent study: 140 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%, approximately 15-minute Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Ghorbankarimi			
Lecturer(s)/Tutor(s):	Dr M Ghorbankarimi			

PR2002 Intermediate Persian 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	1.00 pm Mon to Fri			
This is the second of two intermediate level Persian modules. In tutorials, applied language work uses passages from contemporary and modern writings, selected for their relevance to the understanding of contemporary issues, language and thought. In classes/lectures, representative literary texts provide insights into key themes in Iranian culture. By the end of the module the students are expected to be competent in: a) Reading and translating newspapers on contemporary topics. b) Conversing and engaging in discussion about contemporary topics related to the Middle Eastern and Iranian culture.				
Programme module type:	Compulsory for Persian Available to any degree programme.			
Pre-requisite(s):	PR2001			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 1 surgery hour.			
	Scheduled learning: 66 hours		Guided independent study: 134 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%, approximately 15-minute Oral Examination = 20%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Ghorbankarimi			
Lecturer(s)/Tutor(s):	Dr M Ghorbankarimi			

Russian (RU) modules

RU1001 Elementary Russian Language 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am plus 1 oral hour to be arranged.			
The module, aimed at beginners, provides the most basic elements of Russian (alphabet, vocabulary, grammar, pronunciation). The module begins with the Cyrillic alphabet and the rules of spelling and pronunciation. The main grammatical areas covered are the nominal declensions (nouns, adjective, pronouns), use of cases, and the verbal conjugations, and present and past tenses. Oral tuition with a native language tutor is provided. Please note that this module is not designed for native or heritage speakers of Russian.				
Programme module type:	Optional for Russian			
Anti-requisite(s):	RU1005			
Required for:	RU1002			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 3 language classes and 1 surgery hour.			
	Scheduled learning: 50 hours		Guided independent study: 150 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

RU1002 Elementary Russian Language 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am plus 1 oral hour to be arranged.			
The module builds on RU1001, and on completion will have provided a competence in Russian grammar sufficient for reading Russian texts (books, newspapers etc) with the aid of a dictionary. Further important areas of Russian grammar are covered, including plural and adjectival declensions, future tenses, verbal aspects and verbs of motion. Oral tuition is continued. Please note that this module is not designed for native or heritage speakers of Russian.				
Programme module type:	Optional for Russian			
Pre-requisite(s):	RU1001	Anti-requisite(s):	RU1006	
Required for:	RU2001, RU2003, RU2100, RU2110, RU2201, RU2202, RU2205, RU2206			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 3 language classes and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 15%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 60%, Practical Test = 15%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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RU1005 Advanced Elementary Russian Language and Literature 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm plus 1 hour to be arranged.			
The module reinforces and builds on the knowledge of grammar and vocabulary acquired at school and tests it through a system of regular translations from and into Russian and short written quizzes. Literary texts are studied in Russian, and two literary essays in English are required. Oral tuition is given in small-group classes with a native language instructor. Please note that this module is not designed for native or heritage speakers of Russian.				
Programme module type:	Optional for Russian			
Pre-requisite(s):	Higher Russian or its equivalent.	Anti-requisite(s):	RU1001	
Required for:	RU1006, RU2203, RU2204			
Learning and teaching methods and delivery:	Weekly contact: 3 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 50 hours		Guided independent study: 150 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%, Practical Test = 10%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

RU1006 Advanced Elementary Russian Language and Literature 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm plus 1 hour to be arranged.			
The module builds on the level of achievement reached in RU1005. It has elements of grammar, translation, text analysis, study of literature, for which two essays in English are required, and oral tuition classes with a native language instructor. Please note that this module is not designed for native or heritage speakers of Russian.				
Programme module type:	Optional for Russian			
Pre-requisite(s):	RU1005	Anti-requisite(s):	RU1002	
Required for:	RU2005, RU2100, RU2105, RU2108, RU2205, RU2206			
Learning and teaching methods and delivery:	Weekly contact: 3 language classes, 1 oral class and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 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%, Practical Test = 10%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

Modern Languages - 1000 & 2000 Level - 2016/7 - August 2016

RU2100 Intermediate Russian (Summer Course)				
SCOTCAT Credits:	40	SCQF Level 8	Semester:	SUMMER
Academic year:	2016/7 & 2017/8			
Planned timetable:	20 hours per week for 8 weeks.			
<p>This module is an intensive six-week Russian language and culture course in Russia which brings the student's proficiency in Russian up to a level equivalent to that reached by students passing RU2002 or RU2004 at the appropriate level (Grade 11). Twenty hours of classes per week in conversation, grammar, vocabulary, translation, and Russian cultural background. Students live with families where little if any English is spoken, thus enhancing their immersion in the Russian language. It is available only to students who are unable to take Level 2 Russian modules as part of their sub-Honours course in Semesters 1 and 2 of their second year of study.</p>				
Programme module type:	Optional for Russian			
Pre-requisite(s):	RU1002, RU1006 at Grade 16 or higher	Anti-requisite(s):	Any second-level Russian module	
Required for:	Russian Honours Modules			
Learning and teaching methods and delivery:	Weekly contact: Lectures and practical classes.			
	Scheduled learning: 0 hours		Guided independent study: 0 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 20%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 30%, Oral Examination = 20%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

RU2201 Intermediate Russian Language 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7			
Planned timetable:	3.00 pm plus 1 oral hour to be arranged.			
<p>This module (followed by RU2202 in Semester 2) is the language track at second level for students who took the beginners' modules (RU1001 and RU1002) at first level. The most important elements of Russian grammar taught in the first year are reinforced in this course, with further points of grammar and syntax. Students will translate passages from English to Russian and develop comprehension skills in response to contemporary audio-visual and online material. Material for translation from Russian to English engages with key historical and cultural events. Spoken Russian is improved through small-group oral tuition classes with a native language instructor.</p>				
Programme module type:	40 credits from RU2201 - RU2204 are Compulsory for all degrees involving Russian.			
Pre-requisite(s):	RU1002	Anti-requisite(s):	RU2203, RU2001, RU2003, RU2005	
Co-requisite(s):	RU2202	Required for:	RU2202	
Learning and teaching methods and delivery:	Weekly contact: 3 classes plus 1 oral hour and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 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%, Practical Test = 10%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Finer			

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RU2202 Intermediate Russian Language 2			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	10.00 am plus 1 oral hour to be arranged.		
<p>This module follows RU2201. It is the language track at second level for students who took the beginners' modules (RU1001 and RU1002) at first level. The most important elements of Russian grammar taught in the first year and RU2201 are reinforced in this course, with further points of grammar and syntax. Students will translate passages from English to Russian and develop comprehension skills in response to contemporary audio-visual and online material. Material for translation from Russian to English engages with key historical and cultural events. Spoken Russian is improved through small-group oral tuition classes with a native language instructor.</p>			
Programme module type:	40 credits from RU2201 - RU2204 are Compulsory for all degrees involving Russian.		
Pre-requisite(s):	RU1002	Anti-requisite(s):	RU2204, RU2002, RU2004, RU2006
Co-requisite(s):	RU2201		
Learning and teaching methods and delivery:	Weekly contact: 3 classes plus 1 oral hour and 1 surgery hour.		
	Scheduled learning: 55 hours		Guided independent study: 145 hours
Assessment pattern:	<p>As defined by QAA: Written Examinations = 50%, Practical Examinations = 10%, Coursework = 40%</p>		
	<p>As used by St Andrews: 2-hour Written Examination = 50%, Practical Test = 10%, Coursework = 40%</p>		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	TBC		

RU2203 Advanced Intermediate Russian Language 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm plus 1 oral hour to be arranged.			
<p>This module (followed by RU2204 in Semester 2) is the language track at second level for students who took the advanced' modules (RU1005 and RU1006) at first level. The most important elements of Russian grammar revised in the first year are reinforced in this course, with further points of grammar and syntax. Students will translate passages from English to Russian and develop comprehension skills in response to contemporary audio-visual and online material. Material for translation from Russian to English engages with key historical and cultural events. Spoken Russian is improved through small-group oral tuition classes with a native language instructor.</p>				
Programme module type:	40 credits from RU2201 - RU2204 are Compulsory for all degrees involving Russian.			
Pre-requisite(s):	RU1005	Anti-requisite(s):	RU2201, RU2003, RU2005	
Co-requisite(s):	RU2204	Required for:	RU2204	
Learning and teaching methods and delivery:	Weekly contact: 3 classes plus 1 oral hour and 1 surgery hour.			
	Scheduled learning: 50 hours		Guided independent study: 150 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%, Practical Test = 10%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Finer			

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RU2204 Advanced Intermediate Russian Language 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm plus 1 oral hour to be arranged.			
This module follows RU2203. It is the language track at second level for students who took the advanced' modules (RU1005 and RU1006) at first level. The most important elements of Russian grammar revised in RU2203 are reinforced in this course and further points of grammar and syntax are introduced. Students will translate passages from English to Russian and develop comprehension skills in response to contemporary audio-visual and online material. Material for translation from Russian to English engages with key historical and cultural events. Spoken Russian is improved through small-group oral tuition classes with a native language instructor.				
Programme module type:	40 credits from RU2201 - RU2204 are Compulsory for all degrees involving Russian.			
Pre-requisite(s):	RU1005	Anti-requisite(s):	RU2202, RU2004, RU2006	
Co-requisite(s):	RU2203			
Learning and teaching methods and delivery:	Weekly contact: 3 classes plus 1 oral hour and 1 surgery hour.			
	Scheduled learning: 55 hours		Guided independent study: 145 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%, Practical Test = 10%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

RU2205 Intermediate Russian Literature and Culture 1				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1
Academic year:	2016/7			
Planned timetable:	To be confirmed			
The module introduces students to three works of pre-twentieth-century literature and culture to be read in Russian, while improving reading and comprehension skills. It will include a combination of canonical and non-canonical texts by women and men, and explore the cultural and institutional contexts in which texts were produced, published, read, or viewed. Students will share impressions through class and online discussions, and informal presentations. This module will prepare students for Honours content modules where longer and more complex texts are read in Russian. While optional, students intending to pursue single or joint honours including Russian are encouraged to take this module.				
Programme module type:	Optional for Russian			
Pre-requisite(s):	RU1002 or RU1006			
Learning and teaching methods and delivery:	Weekly contact: 1 class per week and 1 surgery hour.			
	Scheduled learning: 22 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:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Finer			

RU2206 Intermediate Russian Literature and Culture 2				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Planned timetable:	To be confirmed			
<p>The module introduces students to three works of twentieth-century literature and culture to be read in Russian, while improving reading and comprehension skills. It will include a combination of canonical and non-canonical texts by men and women, and explore the cultural and institutional contexts in which texts were produced, published, viewed, and read. Students will share impressions through class and online discussions, and informal presentations. This module will prepare students for Honours content modules where longer and more complex texts are read in Russian. While optional, students intending to pursue single or joint honours including Russian will be encouraged to take this module.</p>				
Programme module type:	Optional for Russian			
Pre-requisite(s):	RU1002 or RU1006			
Learning and teaching methods and delivery:	Weekly contact: 1 class per week and 1 surgery hour.			
	Scheduled learning: 22 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:	2-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

Spanish (SP) modules

SP1001 Spanish Language and Texts 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to First Year students.			
Planned timetable:	12.00 noon			
The language part of the module promotes the four skills of reading, writing, listening and speaking. There is formal grammar instruction and a programme of participative classroom activities, grammar instruction and self-access material. The texts component is designed to provide language in context and to widen the students experience of Spanish and Spanish American life and culture through selected writing and film.				
Programme module type:	Either (SP1001 and SP1002) or (SP1003 and SP1004) are compulsory for Spanish			
Pre-requisite(s):	Higher/A-Level Spanish or equivalent.	Anti-requisite(s):	SP1003	
Required for:	SP1002			
Learning and teaching methods and delivery:	Weekly contact: 3 language classes, 1 lecture and 1 surgery hour (x 10 weeks), 1 seminar (x 8 weeks).			
	Scheduled learning: 58 hours		Guided independent study: 142 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof J Larios			

SP1002 Spanish Language and Texts 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	12.00 noon			
This module advances the four skills developed in SP1001. A language coursebook introduces a higher level of linguistic difficulty through a series of exercises, participative classwork, grammar instruction and self-access work. The literary texts represent contemporary and earlier Spanish as well as Spanish American writing, chosen for linguistic enrichment and cultural significance. The module aims at a level of attainment sufficient to enable the student to enter confidently the 2000-level modules.				
Programme module type:	Either (SP1001 and SP1002) or (SP1003 and SP1004) are compulsory for Spanish			
Pre-requisite(s):	SP1001	Anti-requisite(s):	SP1004	
Required for:	SP2001			
Learning and teaching methods and delivery:	Weekly contact: 3 language classes, 1 lecture and 1 surgery hour (x 11 weeks), 1 seminar (x 8 weeks).			
	Scheduled learning: 63 hours		Guided independent study: 137 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof J Larios			

SP1003 Spanish for Beginners 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to First Year students.			
Planned timetable:	2.00 pm or, if timetable clash, 3.00 pm.			
Intensive ab initio language: The objective is to initiate Spanish language acquisition with a firm grounding in the syntax, morphology and vocabulary of the language. The skills developed are accuracy and fluency in reading, writing, listening and speaking. In classes, students are taught and practise new structures. In the computer classroom these skills are further enhanced through the individual use of self-access materials.				
Programme module type:	Either (SP1003 and SP1004) or (SP1001 and SP1002) are compulsory for Spanish			
Anti-requisite(s):	Speaker of Spanish, a pass at Higher, A-Level or equivalent			
Required for:	SP1004			
Learning and teaching methods and delivery:	Weekly contact: 4 language classes and 1 surgery hour. (x 11 weeks)			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr T Bergman			

SP1004 Spanish for Beginners 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm or, if timetable clash, 3.00 pm.			
There are three classes of language instruction per week to continue intensive language initiation and a self-access CALL program and video materials to consolidate language acquisition and instil accuracy of expression. There are also ten class hours and eight seminars devoted to Hispanic film and literature, chosen for their linguistic and cultural interest. Vocabulary and familiarisation with aspects of the Hispanic world are enhanced. A sound basis in the grammar of Spanish in this module facilitates entry into 2000-level modules in Spanish.				
Programme module type:	Either (SP1003 and SP1004) or (SP1001 and SP1002) are compulsory for Spanish			
Pre-requisite(s):	SP1003	Anti-requisite(s):	SP1002	
Required for:	SP2005			
Learning and teaching methods and delivery:	Weekly contact: 3 language classes and 1 surgery hour (x 11 weeks), 1 lecture (x 11 weeks) and 1 seminar (x 8 weeks).			
	Scheduled learning: 63 hours		Guided independent study: 137 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

Modern Languages - 1000 & 2000 Level - 2016/7 - August 2016

SP1030 Introduction to Modern Latin America				
SCOTCAT Credits:	10	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	1.00 pm Mon and Fri			
This module offers an introduction to modern Latin American history. Starting with the Wars of Independence (1804-1825), it traces the political history of Spanish America, Brazil and Haiti up to the present. Adopting a thematic approach, within a continental-based narrative, this module focuses on the early national period, the neocolonial period, the age of extremes and the age of neoliberalism. Recent trends towards democratisation within a context of globalisation will also be addressed. Whilst the module will stress the common themes between countries as far apart as Mexico and Argentina, it will nonetheless highlight specific national contexts. Key events such as the Mexican-American war, the Mexican Revolution, the Chaco War, the Cuban Revolution and Pinochet's coup of 1973 will all be studied.				
Programme module type:	Available to students on any degree programme.			
Pre-requisite(s):	Knowledge of the Spanish language is NOT required.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 1 surgery hour.			
	Scheduled learning: 32 hours		Guided independent study: 68 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof W M Fowler			

SP2001 Spanish Language and Critical Approaches to Texts 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
In language the four skills of reading, listening, speaking and writing are developed through prepared work and class activities. Language material will reflect cultural aspects of the Spanish-speaking world. The module maintains progress from SP1002; there is a learning gradient. In texts, major critical approaches are studied with reference to the genres of poetry, prose and drama and applied to the critical analysis of specific examples of each from the sixteenth century to the twenty-first, drawn from Spain and Spanish America.				
Programme module type:	SP2001 or SP2005 Compulsory for all degrees involving Spanish			
Pre-requisite(s):	SP1002	Anti-requisite(s):	SP2005	
Required for:	SP2002			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour (x 11 weeks), 1 lecture (x 10 weeks), 1 seminar (x 8 weeks).			
	Scheduled learning: 51 hours		Guided independent study: 149 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

Modern Languages - 1000 & 2000 Level - 2016/7 - August 2016

SP2002 Spanish Language and Critical Approaches to Texts 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
The language part of the module consists of two class hours each week, developing the skills of reading, listening, speaking and writing. Language material will reflect cultural aspects of the Spanish-speaking world. The module maintains progress from SP2001 and SP2005; there is a learning gradient. Literary texts are studied in the context of regions and epochs including Middle Ages and Renaissance in Spain and modern Spanish America.				
Programme module type:	Compulsory for all degrees involving Spanish			
Pre-requisite(s):	SP2001 or SP2005			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour (x 11 weeks), 1 lecture (x 11 weeks), 1 seminar (x 8 weeks).			
	Scheduled learning: 52 hours		Guided independent study: 148 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr K Anipa			

SP2005 Spanish Language and Texts: ex-Beginners				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
The module is designed for ex-Beginners in Spanish who wish to move into mainstream studies of language and literature. It involves revision and progressively deeper understanding of the language, intensive practice in oral, spoken and written skills. In the literature component, study is planned so that thorough vocabulary acquisition, analysis of syntax and understanding of extended texts can be realistically achieved. This module not only opens the way to Spanish Honours for ex-Beginners but could be useful for students who wish to study other subjects in Spain at a later date.				
Programme module type:	SP2005 or SP2001 Compulsory to all degrees involving Spanish			
Pre-requisite(s):	SP1004	Anti-requisite(s):	SP2001	
Required for:	SP2002			
Learning and teaching methods and delivery:	Weekly contact: 2 language classes and 1 surgery hour (x 11 weeks), 1 lecture (x 10 weeks), 1 seminar (x 8 weeks).			
	Scheduled learning: 51 hours		Guided independent study: 149 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	TBC			

Modern Languages - 1000 & 2000 Level - 2016/7 - August 2016

SP2006 Spanish Language and Critical Approaches to Cinema			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 1 & 2 (taught twice)
Academic year:	2016/7 & 2017/8		
Planned timetable:	To be arranged.		
The module is designed to enhance the language skills of the student, with intensive practice in oral, spoken and written skills. The syllabus is based on a selection of films from Spain and Latin America, which are used as sources for thematic discussion and linguistic development. Weekly film viewings in advance of scheduled classes are part of the programme. Ex-Beginners will normally take this module in Semester 2.			
Programme module type:	SP2006 may be taken in addition to compulsory modules for single and joint Honours Spanish		
Pre-requisite(s):	SP1002 or SP1004		
Learning and teaching methods and delivery:	Weekly contact: 3 seminars, 1 surgery hour (x 11 weeks)		
	Scheduled learning: 40 hours	Guided independent study: 160 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Ms L Albert-Ferrando		
Lecturer(s)/Tutor(s):	Ms L Albert-Ferrando, & TBC		

School of Philosophical, Anthropological & Film Studies

Film Studies (FM) modules

FM1001 Key Concepts in Film Studies				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Mon and Thu, 7.00 - 10.00 pm Mon (screening)			
In this introductory module, we examine key concepts and approaches that are relevant to the study of film. The module aims primarily to develop the skills needed for film analysis by looking at aspects of film form such as mise-en-scene, editing, cinematography, narrative and sound. Students will also examine particular aspects of Film Studies such as genre, authorship, stardom, acting and film industries. This module introduces students to notions of popular and art cinemas as well as documentary through a range of important cinematic texts from around the world.				
Programme module type:	Compulsory for Film Studies			
Required for:	FM1002, FM2001			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, a 1-hour seminar and screening (typically 2 hours)			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Donaldson			
Lecturer(s)/Tutor(s):	Dr L Donaldson, Dr A Jain, Dr L Torchin, Prof R Dyer			

FM1002 Film History and Historiography				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Mon and Thu, 7.00 - 10.00 pm Mon (screening)			
This module introduces key movements and moments in film history across the first fifty years of film. Students will first examine the major formal, technological, and industrial transformations from cinema's beginnings in the 1890s up to the conversion to sound in the late 1920s. How were films made, exhibited and understood and why did cinema evolve in the ways that it did? Throughout the module, we will examine film history in a global context, exploring international developments in Germany, Soviet Russia, Britain, Japan and Italy. Students will be encouraged to engage with primary materials and to examine critically the methods and approaches for writing and researching film. What can we learn from studying film and how does studying film history help us to better understand cinema and new media today?				
Programme module type:	Compulsory for Film Studies			
Pre-requisite(s):	FM1001	Required for:	FM2001	
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, a 1-hour seminar and screening (typically 2 hours)			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Jain			
Lecturer(s)/Tutor(s):	Dr A Jain, Dr E Girelli, Dr L Torchin, Dr M Cowan, Dr R Burgoyne			

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - August 2016

FM2001 Modern World Cinemas				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Tue and Fri, 7.00 - 10.00 pm Tue (screening)			
This module continues the exploration of issues of film history and historiography which began in FM1002. It introduces students to significant cinematic developments across the second half of the twentieth century (such as, among others, the French Nouvelle Vague, New German cinema, New Latin American cinema, African cinema, New Hollywood, etc), providing exposure to the work of some of the most significant cineastes in the world. The exploration of the history of film art is strongly contextualised, to foster adequate understanding of the multiple forces shaping cinematic production and distribution, and of the complex dynamics of world cinema. The module includes weekly screenings of key cinematic texts.				
Programme module type:	Compulsory for Film Studies			
Pre-requisite(s):	FM1001	Required for:	FM2002	
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, a 1-hour seminar and screening (typically 2 hours)			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr D Hanlon			
Lecturer(s)/Tutor(s):	Dr E Girelli, Dr M Cowan, Dr D Hanlon, Dr A. Jain			

FM2002 Film Culture, Theory, Entertainment				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Tue and Fri, 7.00 - 10.00 pm Tue (screening)			
This module introduces a range of political, philosophical, and cultural approaches to the cinema, centring on the key insights, the breakthrough critical ideas that have informed the study of film and its role in society. The cinema - as a new and revolutionary art form - attracted many of the most powerful thinkers of the 20th century. And with every technological advance in film - including sound, colour, and computer animation - new theories of "what is cinema" emerged, creating a rich and highly concentrated intellectual exchange in a short period of time. These writings comprise the subject of this module.				
Programme module type:	Compulsory for Film Studies			
Pre-requisite(s):	FM2001			
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour lectures, a 1-hour seminar and screening (typically 2 hours)			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Cowan			
Lecturer(s)/Tutor(s):	Dr L Donaldson, Dr D Hanlon, Dr M Cowan, Prof R Burgoyne, Dr L Torchin			

Music (MU) modules

MU1003 Understanding Music (A)				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Lectures and seminar: Mon, Tue and Thu			
<p>This module aims to develop skills and knowledge that will help students to get more out of the experience of listening to music. Focusing particularly on classical music, the module includes components on musical history, acoustics and aesthetics and examines set works in particular detail. Students are not required to perform as part of this module, but a good prior knowledge of score reading and analysis is essential. A diagnostic test will be carried out in week 1 to ascertain whether you have the necessary musical score literacy to succeed in this class. A low score on this test will indicate that you should transfer into Understanding Music (B) where this skills gap will be addressed.</p>				
Programme module type:	Available to any degree programme.			
Pre-requisite(s):	Students should hold one of the following qualifications or a suitable equivalent: Higher Music, A level Music, AB Grade 5 Theory, Grade 6 or above in practical performance on any instrument or voice.			
Anti-requisite(s):	MU1013			
Learning and teaching methods and delivery:	<p>Weekly contact: 2 lectures, 1 seminar and 1 tutorial. Orientation week: enrolment meeting and diagnostic testing Revision week: 2 optional revision sessions</p>			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	<p>As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%</p>			
	<p>As used by St Andrews: 1-hour Written Examination = 25%, Coursework = 75%</p>			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Pettegree			
Lecturer(s)/Tutor(s):	Team taught			

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - August 2016

MU1004 Making Music				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Tutorials: Tue, Thu and Fri			
This module is designed for students who have already studied an instrument or singing and would like to continue making music at high level while at university. It supports students in improving their performance abilities while developing an understanding of the historical, analytical and aesthetic ideas related to musical performance. The module also offers the chance to study composition and to perform as part of an ensemble. Students are required to present a short recital for examination and to complete related written work.				
Programme module type:	Available to any degree programme.			
Pre-requisite(s):	Grade 8 performance certificate or an audition with the module co-ordinator			
Required for:	MU2001			
Learning and teaching methods and delivery:	Weekly contact: 3 tutorials.			
	Scheduled learning: 33 hours		Guided independent study: 167 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 67%, Coursework = 33%			
	As used by St Andrews: Practical Examination = 67%, Coursework = 33%			
Re-Assessment pattern:	2000-word essay = 50%, Practical Examination (15-minute recital) = 50%			
Module Co-ordinator:	Mr B Williams			
Lecturer(s)/Tutor(s):	Team taught			

MU1005 Reading Opera: Texts, Libretti and Music from Purcell to Stravinsky				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am - Lectures Mon and Thu, Viewing Sessions Tue and Wed			
This module examines operas based on literary works from a variety of different nations (France, England, Russia, Germany, USA, Ancient Rome) that are significant in their own right. Our work will focus on the transformations of meaning and structure that take place as text is turned into libretto, and as libretto is set to music. The module will shed light on the relationship between music and text, and on the function that music plays in drama. Composers to be examined may include some or all of the following: Purcell, Bizet, Tchaikovsky, Massenet, Verdi, Puccini, Debussy, Berg and Stravinsky. No prior knowledge of musical notation is necessary to take this module. It is intended to be of particular interest to students of English literature and European modern languages, but is open to all with an interest in the link between music and drama.				
Programme module type:	Available to any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures, 2 screenings and (weeks 2 - 11) 1 tutorial.			
	Scheduled learning: 54 hours		Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Pettegree			
Lecturer(s)/Tutor(s):	Team taught			

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - August 2016

MU1013 Understanding Music (B)				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm Lectures and seminar: Mon, Tue and Thu			
<p>This module is aimed specifically at students who lack skills in reading music scores but who enjoy listening to music, and who are therefore interested in exploring the subject at university level and in developing more advanced music literacy skills. It aims to develop skills and knowledge that will help students to get more out of the experience of listening to music. Focusing particularly on Western classical music, the module includes components on music history, acoustics and aesthetics. Some basic formal music education including familiarity with standard Western musical notation is expected.</p>				
Programme module type:	Available for any degree programme			
Anti-requisite(s):	MU1003, ABRSM Grade 5 Theory or Grade 6 in practical performance on any instrument or voice.			
Learning and teaching methods and delivery:	<p>Weekly contact: 2 lectures, 1 seminar and 1 tutorial. Orientation week: enrolment meeting and diagnostic testing Revision week: 2 optional revision sessions</p>			
	Scheduled learning: 44 hours	Guided independent study: 156 hours		
Assessment pattern:	<p>As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%</p>			
	<p>As used by St Andrews: 1-hour Written Examination = 25%, Coursework = 75%</p>			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Pettegree			
Lecturer(s)/Tutor(s):	Team taught			

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - August 2016

MU2001 Advanced Performance			
SCOTCAT Credits:	20	SCQF Level 8	Semester: Whole Year
Academic year:	2016/7 & 2017/8		
Planned timetable:	Tutorials 10.00 am every second Tue (normally even-numbered weeks, with adjustment in semester 1 to accommodate the ILW). Other classes to be arranged.		
This module caters for students aiming to develop their performing skills to diploma level. Alongside the primary focus of performance, students will have the opportunity to consider relevant music in its historical context. Teaching will include subsidised instrumental/vocal lessons at the University Music Centre (covering thirty minutes' tuition every two weeks) as well as masterclasses with professional musicians.			
Programme module type:	Available to any degree programme.		
Pre-requisite(s):	A mark of 16 or higher in MU1004 Making Music. In exceptional circumstances, entry could be by audition.		
Learning and teaching methods and delivery:	Weekly contact: Fortnightly individual 30 minute instrumental lessons (5 each semester); fortnightly 1 hour tutorials (5 each semester) and 12 additional hours of teaching in a variety of formats including masterclasses, professional development topic seminars and practical training in musicianship appropriate to both individual and group requirements, spread over the academic year. Delivery of these 12 hours will be flexible in order to take advantage of opportunities arising through the Music Centre, but will be agreed with students so that it lies sympathetically alongside their other timetabled commitments.		
	Scheduled learning: 27 hours	Guided independent study: 173 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 80%, Coursework = 20%		
	As used by St Andrews: Practical Examination (30-minute performance, viva voce and sight-reading) = 80%, Coursework = 20%		
Re-Assessment pattern:	1-hour Written Examination = 20%, Practical Examination = 80% (Practical Examination (30-minute recital: 60%, viva voce: 10%, quick study: 10%) = 80%)		
Module Co-ordinator:	Mr T A Wilkinson		
Lecturer(s)/Tutor(s):	Team taught		

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - December 2016

MU2002 Scottish Music				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1 & 2 (taught twice)
Academic year:	2016/7 & 2017/8			
Planned timetable:	9.00 am Tue, Wed and Thu			
The module explores a wide range of music in Scotland, examining Highland and Lowland folk music and more recent pop music as well as classical music composed from the mediaeval era onwards. In doing so, it aims to build up an understanding of the relationship between Scottish music and the society in which it is produced. No prior knowledge of musical notation is necessary: this module will interest all those interested in the rich and varied musical culture of the country in which they are living.				
Programme module type:	Available to any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial. In Semester 1: Orientation week: 2 x introductory sessions, and optional (2 hours) whistle session in ILW			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J A Kemp			
Lecturer(s)/Tutor(s):	Team taught			

MU2004 Electronic Music				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm Mon, Thu and Fri			
This is a practical module offering students the opportunity to work in small groups in the Music Centre's studio to create music from electronic sources. Accompanying lectures and seminars examine the history of electronic music, amplified music and computer music and look at works by significant composers and innovators who have worked in these genres, from Stockhausen to Jimi Hendrix. The module also offers tuition in music software packages such as Sibelius, Logic and Ableton Live. No prior experience in electronic music is necessary in order to take the module, but some knowledge of music notation or music theory would be advantageous.				
Programme module type:	Available to any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 seminar and 1 practical class per week. 1 fortnightly tutorial.			
	Scheduled learning: 38 hours		Guided independent study: 162 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	2016/7 - 1.5-hour Written Examination = 30%, New Coursework = 70% (from an electronic music composition, the composition to last between 5 and 8 minutes when played.) 2017/8 - Coursework = 100% (an electronic composition weighted at 70% of the overall grade, and an essay weighted at 30%).			
Module Co-ordinator:	Dr J A Kemp			
Lecturer(s)/Tutor(s):	Team taught			

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - August 2016

MU2006 Music Leadership			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	1.00 pm - 2.00 pm Mon, Thu		
<p>This module will give students with existing music skills the opportunity to work with others to create, build and deliver a musical event. Working in groups, they will be given the opportunity to create repertoire, learn about leading rehearsals, and produce a final performance. All students will participate in all taught areas of the syllabus. Input from professional practitioners will help them to relate their learning to real-world situations. Assessment will track the life-cycle of their project, helping them to reflect on the skills they have used to bring their performance to an audience. The module will give students who are already active music-makers the opportunity to understand how to manage and lead a musical group project.</p>			
Programme module type:	Available for any degree programme.		
Pre-requisite(s):	MU1003 or MU1013 or MU1004 with a pass of 11 or above. In exceptional circumstances students with evidence of practical musical experience, may apply in writing before the start of the academic session.		
Learning and teaching methods and delivery:	Weekly contact: 2 x 1-hour seminars (x 8 weeks), 1-hour tutorial (x 8 weeks) and 1 optional consultative hour (x 12 weeks) plus 2 hours of lectures and 2 hours of practical classes over the semester.		
	Scheduled learning: 40 hours	Guided independent study: 160 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 17%, Coursework = 83%		
	As used by St Andrews: Coursework = 100%		
Re-Assessment pattern:	A new piece of repertoire communicated using a musical score, plus a 1500 word critical commentary.		
Module Co-ordinator:	Dr M Ferguson		
Lecturer(s)/Tutor(s):	Team taught		

Philosophy (PY) modules

PY1010 Mind and World				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am - 12.00 noon Mon, Tue, Thu, and occasional Fri			
This module provides an introduction to philosophical issues in metaphysics and philosophy of mind. These include questions such as: What is the relation between the mind and the material world? Is the mind a part of the scientific, law-governed material world? If so, can I really act freely? If the mind is part of the material world, how could a material thing be conscious? What, fundamentally, are material things and their properties? What is it for one event to cause another? What is time, and what is change? How can physical objects persist through change? Can a person persist through time and change and still be the same person?				
Programme module type:	Optional for all BSc and MA Philosophy degrees			
Anti-requisite(s):	PY1005, PY2801, PY2902			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr S Prosser			
Lecturer(s)/Tutor(s):	Team taught			

PY1011 Moral and Political Controversies				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	5.00 pm - 6.00 pm Mon, Tue, Thu, and occasional Fri			
Philosophy has often been said to begin with the question 'how ought we to live?' This module introduces students to fundamental questions and problems in moral philosophy (how should we live? What ought we to do? What is it to be a good human being?) and in political philosophy (how ought we to live together?). In moral philosophy we will look at both applied ethics (exploring particular moral issues, such as our obligations to those in severe need, and our treatment of non-human animals) and normative ethics (exploring theoretical approaches to tackling such issues, for example utilitarian, Kantian and virtue ethics). In political philosophy, we will explore central concepts such as liberty, equality, and democracy, and consider the extent to which we should give up some of our freedom in exchange for the protection of the state.				
Programme module type:	Optional for all BSc and MA Philosophy degrees			
Anti-requisite(s):	PY1105, PY1106, PY1801, PY1901			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	Team taught			

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - August 2016

PY1012 Reasoning				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	5.00 pm - 6.00 pm Mon, Tue, Thu, and occasional Fri			
This module introduces the essential concepts and techniques of critical reasoning, formal propositional logic, and basic predicate logic. Among the central questions are these: what distinguishes an argument from a mere rhetorical ploy? What makes an argument a good one? How can we formally prove that a conclusion follows from some premises? In addressing these questions, we will also cover topics such as argumentative fallacies, ambiguity, argument forms and analyses, induction versus deduction, counterexamples, truth-tables, truth-trees (tableaux), natural deduction, and quantification.				
Programme module type:	Compulsory for all BSc and MA Philosophy degrees			
Anti-requisite(s):	PY1006, PY1802	Required for:	PY2010	
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 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 = 40%, Coursework (2 x class tests) = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr E Glick			
Lecturer(s)/Tutor(s):	Team Taught			

PY1013 The Enlightenment				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am - 12.00 noon Mon, Tue, Thu			
This module provides an introduction to central figures, works and ideas of the period of the European Enlightenment (roughly 1700-1800), beginning with an account of its historical background and ending with a review of its legacy. It will approach issues both thematically and through the writings of major thinkers, considering for example various contrasts: experience and reason, belief and scepticism, individual and society, nature and convention, equality and inequality and representation and revolution; and looking at the ideas of such figures as Locke, Hume, Kant, Smith, and Rousseau.				
Programme module type:	Optional for all BSc and MA Philosophy degrees			
Anti-requisite(s):	PY2004, PY2901, PY1106			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Harris			
Lecturer(s)/Tutor(s):	Team Taught			

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - August 2016

PY2010 Intermediate Logic				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	2.00 pm - 3.00 pm Mon, Tue, Thu and occasional Fri			
This module aims to further develop students' understanding of formal logic by the study of a broad array of systems of logic. The module covers classical, modal, intuitionistic, and other non-classical logics, looking at both propositional and quantified versions. Particular attention is paid to the difference between semantics and proof theory for such systems.				
Programme module type:	Compulsory for BSc Philosophy Degrees (unless PY2012 is taken) Optional for all MA Philosophy Degrees			
Pre-requisite(s):	PY1006 or PY1012	Anti-requisite(s):	PY2001	
Required for:	PY4612			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr A Cotnoir			
Lecturer(s)/Tutor(s):	Team Taught			

PY2011 Foundations of Western Philosophy				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm - 4.00 pm Mon, Tue, Thu and occasional Fri			
This module provides an introduction to central figures, texts and ideas of the period of Ancient Philosophy. Classical Greek philosophy – specifically the works of Plato and Aristotle – will always be at the core of the module. The study of Plato and Aristotle can serve as a focus for discussing either earlier (presocratic) or later philosophical developments. Themes covered will include: the nature of thought, natural science, the human mind, the theory of knowledge, metaphysics and the good life of the individual and of society.				
Programme module type:	Optional for all BSc and MA Philosophy degrees			
Anti-requisite(s):	PY2003	Required for:	PY4611	
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr B Sattler			
Lecturer(s)/Tutor(s):	Team Taught			

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PY2012 Meaning and Knowing			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	2.00pm - 3.00 pm Mon, Tue, Thu and occasional Fri		
<p>This module aims to provide a comprehensive foundation in both epistemology (the theory of knowledge) and the philosophy of language. It will typically cover the following central questions in epistemology: What is knowledge? What is evidence? Can we trust the evidence of the senses? Can we defeat the sceptic about knowledge? What are the limits of knowledge? What is the nature of belief? When is a belief a good belief? What is the nature of perception? What is the difference between mathematical knowledge and empirical knowledge? Questions covered on the philosophy of language component may include: What is communication? What is linguistic meaning? What is the difference between saying and implying? What is it for an expression to be context-sensitive? What is the nature of metaphor? Topics which span both components of the module include: internalism and externalism.</p>			
Programme module type:	Compulsory for BSc Philosophy Degrees (unless PY2010 is taken) Optional for all MA Philosophy Degrees		
Anti-requisite(s):	PY3701		
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.		
	Scheduled learning: 43 hours	Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	3-hour Written Examination = 100%		
Module Co-ordinator:	Prof J Brown		
Lecturer(s)/Tutor(s):	Team Taught		

Philosophical, Anthropological & Film Studies - 1000 & 2000 Level - 2016/7 - August 2016

PY2013 Moral and Aesthetic Value				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	3.00 pm - 4.00 pm Mon, Tue, Thu and occasional Fri			
This module examines moral values, aesthetic values, and the relationship between them. Issues typically addressed may include the objectivity of moral and aesthetic values, the role of disagreement in morality and aesthetics, the relativity of moral and aesthetic judgement, the presence or the absence of principles in the moral and aesthetic domains, the possibility of moral and aesthetic knowledge, and the relation of morality and aesthetics to experience.				
Programme module type:	Optional for all BSc and MA Philosophy degrees			
Anti-requisite(s):	PY2101, PY3702			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 43 hours		Guided independent study: 157 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Snedegar			
Lecturer(s)/Tutor(s):	Team Taught			

Social Anthropology (SA) modules

SA1001 Anthropology in the World				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm			
The module explores topical and controversial issues in the relation between environment and human social life, drawing on the full variety of human societies. It explores such themes as the environmental determinism of human customs, economic development, and 'uprooted peoples'.				
Programme module type:	Optional (but recommended) for Social Anthropology			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 film/workshop and 1 tutorial.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Frankland			
Lecturer(s)/Tutor(s):	Dr M Frankland			

SA1002 Ways of Thinking				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	4.00 pm Lectures (Mon, Tue, Thu, Fri)			
The module concentrates on the modes of thought and systems of belief of non-Western cultures and on the social significance of language in human communication in societies across the world and in more 'exotic' ones.				
Programme module type:	Compulsory for Social Anthropology			
Required for:	SA2001			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 film/workshop and 1 tutorial.			
	Scheduled learning: 54 hours		Guided independent study: 146 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Prof P Gow			
Lecturer(s)/Tutor(s):	Prof P Gow			

SA2001 The Foundations of Social Anthropology				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
This module examines the social relationships, groups and categories which constitute the foundations of human life in the full variety of societies. Topics covered include kinship and the family, and ethnic relations.				
Programme module type:	Compulsory for Social Anthropology			
Pre-requisite(s):	SA1002			
Required for:	SA2002			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 film/workshop and 1 tutorial.			
	Scheduled learning: 55 hours		Guided independent study: 145 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr H Wardle			
Lecturer(s)/Tutor(s):	Dr H Wardle			

SA2002 Ethnographic Encounters				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am Lectures (Mon, Tue, Thu, Fri)			
This module explores the emergence of fieldwork practice in social anthropology, and reflexively considers the social, methodological and theoretical relations produced through ethnography. The module follows a narrative of preparing, conducting and analyzing a fieldwork project by considering the development of fieldwork practices, new ethnographic subjects and urban anthropology before turning to students' own fieldwork projects and their interpretation.				
Programme module type:	Compulsory for Social Anthropology			
Pre-requisite(s):	SA2001			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures, 1 film/workshop and 1 tutorial.			
	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:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Fumanti			
Lecturer(s)/Tutor(s):	Dr M Fumanti			

School of Physics & Astronomy

Astronomy (AS) Modules

AS1001 Astronomy and Astrophysics 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am lectures, one afternoon chosen from Mon, Wed and Fri with tutorial 2.00 pm - 3.00 and lab 3.00 pm - 5.30 pm			
This module surveys our present state of knowledge of the orbits, surfaces and atmospheres of the planets in our solar system; the structure and evolution of the Sun and other stars, including extra-solar planetary systems; the bizarre menagerie of star-forming regions, violent stellar objects and supermassive black holes found within our own Milky Way Galaxy and in other galaxies; and the large-scale structure and ultimate fate of the expanding Universe. Throughout the module, fundamental observations are interpreted using mathematical models to show how distances and other properties of astronomical objects throughout the Universe have been measured, from the time of Copernicus to the era of the Hubble Telescope and beyond.				
Programme module type:	AS1001 or AS1101 is compulsory for Astrophysics			
Pre-requisite(s):	SQA Higher or A-Level Physics and Mathematics, at grade B or better	Anti-requisite(s):	AS1002, AS1101	
Required for:	AS2001, AS2101			
Learning and teaching methods and delivery:	Weekly contact: 4 or 5 lectures, 1 tutorial and 1 x 2.5-hour laboratory.			
	Scheduled learning: 90 hours		Guided independent study: 110 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Class Tests = 15%, Laboratory work = 25%			
Re-Assessment pattern:	2-hour Written Examination = 75%, Existing Laboratory work = 25%			
Module Co-ordinator:	Dr A Scholz			
Lecturer(s)/Tutor(s):	Dr A Scholz, Prof M Jardine, Dr C Cyganowski, Dr R Tojeiro			

AS1002 The Physical Universe				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am			
This module presents a descriptive, largely non-mathematical account of the physical universe. It is aimed at students from across the University. It is divided into two components: concepts in astronomy, dealing with our understandings of the properties and ages of planets, stars, galaxies, and their distributions in space, cosmology and the origin of the Universe; and concepts in physics, dealing with our understandings of the nature of light and matter, the structure of atoms, fundamental particles and their links to cosmology.				
Programme module type:	Available to any degree programme.			
Anti-requisite(s):	AS1001, AS1101, AS2001, AS2012, PH1011, PH1012, PH2011, PH2012			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial/seminar.			
	Scheduled learning: 43 hours		Guided independent study: 157 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 (2 x Class Tests) = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr M Dominik			
Lecturer(s)/Tutor(s):	Dr M Dominik, Dr H Zhao			

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AS1101 Astrophysics (Direct Entry)			
SCOTCAT Credits:	5	SCQF Level 7	Semester: 1
Academic year:	2016/7 & 2017/8		
Availability restrictions:	Available only to Direct Second level Entry students in Physics or Astrophysics		
Planned timetable:	11.00 am (4 hours of lectures/tutorials every 2 weeks (weeks 1 - 8))		
<p>This module provides a streamlined introduction to the science of astrophysics for students who have taken direct entry to Second level and who are planning to take level two astrophysics later in the same academic session. It covers the essential items of observational astrophysics and how the radiation that is detected on Earth can be used to develop a physical model of the Sun, stars, planets, our Galaxy and external galaxies as well as the Universe as a whole. Topics will include stellar evolution, the rotation curves of galaxies and the need for Dark Matter as well as the expanding Universe, Dark Energy and cosmology.</p>			
Programme module type:	Compulsory for Direct Entry to Second Year students in Astrophysics BSc and MPhys		
Pre-requisite(s):	Direct entry to level two at the University of St Andrews with a degree intention of Astrophysics, Physics, Theoretical Physics or a joint degree with one of these.		
Co-requisite(s):	PH2011	Anti-requisite(s):	AS1001, AS1002
Learning and teaching methods and delivery:	Weekly contact: 1.5-hour lecture (x 8 weeks), 3-hour practical work (x 2 weeks) 1-hour tutorial (x 4 weeks)		
	Scheduled learning: 22 hours	Guided independent study: 28 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
	As used by St Andrews: Coursework (Class test = 50%, laboratory work=25%, take-home exam = 15%, online quizzes = 10%) = 100%		
Re-Assessment pattern:	1-hour Written Examination = 75%, Existing Laboratory work = 25%		
Module Co-ordinator:	Dr A-M Weijmans		
Lecturer(s)/Tutor(s):	Dr A-M Weijmans		

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AS2001 Astronomy and Astrophysics 2				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	11.00 am lectures, Tue or Fri afternoons 2.00 pm - 3.00 pm tutorial and 3.00 pm - 5.30 pm lab			
This module comprises four lecture courses which extend knowledge gained in the first level module AS1001, and discuss recent developments in the subject: (i) observational techniques - modern telescopes; instruments and detectors for gamma-, X-, uv, optical, IR and radio radiation; spherical astronomy and essential coordinate systems; (ii) the structure and evolution of stars - nucleosynthesis, stellar properties as a function of age, a complete understanding of the HR diagram; (iii) exoplanetary science - theoretical and observational studies of planetary systems beyond our own; (iv) galactic astronomy - the distribution and motion of stars, gas, dust, and dark matter in our Milky Way and other galaxies.				
Programme module type:	Compulsory for Astrophysics (First Year Entry)			
Pre-requisite(s):	AS1001 or AS1101, PH1011, PH1012 and MT1002.	Anti-requisite(s):	AS2101	
Required for:	Either AS2001 or AS2101 is required for AS3013, AS4010, AS4011, AS4021, AS4022, AS4023, AS4025, AS5003.			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 tutorial and 1 x 2.5-hour laboratory session.			
	Scheduled learning: 78 hours		Guided independent study: 222 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%, 2 x Class Tests = 15%, Laboratory work = 25%			
Re-Assessment pattern:	3-hour Written Examination = 75%, Existing Laboratory work = 25%			
Module Co-ordinator:	Prof A Cameron			
Lecturer(s)/Tutor(s):	Prof A Cameron, Prof K Horne, Dr C Helling, Dr Cyganowski			

AS2101 Astrophysics 2				
SCOTCAT Credits:	15	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Normally available only to those who took "direct entry" to second year			
Planned timetable:	11.00 am lectures, plus Tue or Fri 2.00 pm - 3.00 pm tutorial			
This module is designed to extend the knowledge gained in the first level AS1001 or AS1101 module and to prepare the way for more advanced material appearing in the honours astrophysics modules. The module has three basic components dealing with the physics of stellar structure and evolution, the components and dynamics of galaxies, and exoplanetary science - theoretical and observational studies of planetary systems beyond our own. The module is based on the physical principles and mathematical techniques acquired earlier, and applied to the astrophysical concepts covered in AS1001 or AS1101.				
Programme module type:	Compulsory for Astrophysics (Direct Second Year Entry)			
Pre-requisite(s):	AS1001 or AS1101, MT1002, PH2011	Anti-requisite(s):	AS2001	
Required for:	Either AS2001 or AS2101 is required for AS3013, AS4010, AS4011, AS4021, AS4022, AS4023, AS4025, AS5003.			
Learning and teaching methods and delivery:	Weekly contact: 3/4 lectures and 1 tutorial.			
	Scheduled learning: 45 hours		Guided independent study: 105 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%, 2 x Class Tests = 20%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Prof A Cameron			
Lecturer(s)/Tutor(s):	Prof A Cameron , Dr C Helling, Prof K Horne			

Physics (PH) Modules

PH1011 Physics 1A			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	12.00 noon lectures, one afternoon from five each week, 2.00 pm - 3.00 pm tutorial and 3.00 pm - 5.30 pm lab		
This module covers the core subjects of mechanics, waves and optics, and also provides an overview of the physical properties of matter. It is suitable for those who have studied physics to the level of Higher Physics or equivalent. It includes lectures on Newton's laws, work and energy, simple harmonic motion, the different types of wave motion, geometrical and wave optics, and the nature and composition of nuclei, atoms, molecules and solids, and their interactions. Relevant laboratory work is an important part of the module.			
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Single and Joint Honours Theoretical Physics (First Year Entry)		
Pre-requisite(s):	SQA Higher or A-Level Physics and Mathematics, both at grade B or better, or equivalent.	Anti-requisite(s):	AS1002
Learning and teaching methods and delivery:	Weekly contact: Typically 4 lectures, 1 problem-solving workshop, 1 tutorial and 1 x 2.5-hour laboratory.		
	Scheduled learning: 88 hours	Guided independent study: 112 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
	As used by St Andrews: 2-hour Written Examination = 60%, Class Test = 15%, Laboratory Work = 25%		
Re-Assessment pattern:	2-hour Written Resit Examination = 60%, combined with existing Laboratory Work = 25%, existing Class Test = 15%		
Module Co-ordinator:	Dr P Woitke		
Lecturer(s)/Tutor(s):	Dr P Woitke, Dr B D Sinclair, Prof M Gather, Dr C Rae		

PH1012 Physics 1B			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 2
Academic year:	2016/7 & 2017/8		
Planned timetable:	12.00 noon lectures; One afternoon from up to five per week, 2.00 pm - 3.00 pm tutorial, 3.00 pm - 5.30 pm lab		
This module covers an introduction to quantum mechanics, the mechanics of rotation and gravity and an introduction to lasers. The module is suitable for those who have studied physics to the level of Higher Physics or equivalent. It includes lectures on the origins of quantum theory, its application to atoms and other small-scale systems; the principles of lasers, and some aspects of optical communication. The module also includes a set of group-based activities associated with the use of physics ideas to solve an interesting problem. Relevant laboratory work is an important part of the module.			
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Single and Joint Honours Theoretical Physics (First Year Entry)		
Pre-requisite(s):	PH1011	Anti-requisite(s):	AS1002
Learning and teaching methods and delivery:	Weekly contact: Typically 4 lectures, 1 workshop, 1 tutorial and 1 x 2.5 hr laboratory. Group Discovery Project replaces some lectures for part of the semester.		
	Scheduled learning: 78 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%, Class Test = 10%, Laboratory work = 25%, Group Discovery Project = 15%		
Re-Assessment pattern:	2-hour Written Resit Examination = 50%, combined with existing Laboratory work = 25%, and existing Group Discovery Project = 15%, existing class test 10%		
Module Co-ordinator:	Dr G P Wahl		
Lecturer(s)/Tutor(s):	Dr G P Wahl, Dr L J Hadfield, Dr T Brown, Dr D Cassettari, Dr C Rae		

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PH1501 Mathematics for Physicists 1A				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to those on the Physics and Astronomy (Gateway) Programme and the Physics and Astronomy International Gateway Programme.			
Planned timetable:	To be arranged.			
This module is designed to give physics students a secure base in elementary calculus and other mathematical tools to enable them to access the mathematics modules needed for progression into physics and astronomy degrees. Participants will learn to use this mathematics effectively and efficiently in the context of work in physics. Some of the work is a revision and practice of material that will normally have been seen in the Scottish Higher and some A-Level maths syllabuses. The content is similar to that in MT1001 and will allow students to progress to MT1002 in semester 2.				
Programme module type:	Physics and Astronomy (Gateway) Programme Physics and Astronomy International Gateway Programme			
Pre-requisite(s):	Entry to Physics and Astronomy (Gateway) or International Gateway Programmes.	Anti-requisite(s):	MT1001	
Co-requisite(s):	PH1011, PH1502			
Learning and teaching methods and delivery:	Weekly contact: 5 lectures, 1 tutorial and 1 workshop.			
	Scheduled learning: 77 hours		Guided independent study: 123 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Hadfield			
Lecturer(s)/Tutor(s):	Dr L Hadfield, Dr G Smith			

PH1502 Physics Skills 1A				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to those on the Physics and Astronomy (Gateway) Programme and the Physics and Astronomy International Gateway Programme			
Planned timetable:	To be arranged.			
This module develops academic and transferable skills in problem-solving, team-working, information retrieval and analysis, and study skills. It is a core module of the level one programme "Physics and Astronomy (Gateway)".				
Programme module type:	Physics and Astronomy (Gateway) Programme Physics and Astronomy International Gateway Programme			
Pre-requisite(s):	Entry to Physics and Astronomy (Gateway) or International Gateway Programme			
Co-requisite(s):	PH1011			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures, 3 x 1.25-hour workshops, 1 x 3-hour lab, 1 x 2-hour supported study session.			
	Scheduled learning: 118 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:	60% new assignments, 40% marks for the assignments that make up the first assessment specification of the module.			
Module Co-ordinator:	Dr L Hadfield			
Lecturer(s)/Tutor(s):	Dr L Hadfield, Dr G Smith, Dr J Lovett , Dr Weijmans			

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PH1503 Physics Skills 1B				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to those on the Physics and Astronomy (Gateway) Programme and the Physics and Astronomy International Gateway Programme			
Planned timetable:	To be arranged.			
This module develops academic and transferable skills in problem solving in physics, in mathematical modelling of physical systems, in numerical/computational work applied to physics, and in study skills. It is a core module for the level one programme "Physics and Astronomy (Gateway)".				
Programme module type:	Physics and Astronomy (Gateway) Programme Physics and Astronomy International Gateway Programme			
Pre-requisite(s):	Entry to Physics and Astronomy (Gateway) or International Gateway Programme			
Co-requisite(s):	PH1012			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures, 3 x 1.25-hour workshops, 1 x 3-hour lab, 1 x 2-hour supported study session			
	Scheduled learning: 118 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:	60% new assignments, 40% marks for the assignments that make up the first assessment specification of the module.			
Module Co-ordinator:	Dr L Hadfield			
Lecturer(s)/Tutor(s):	Dr L Hadfield, Dr G Smith, Dr J Lovett			

PH2011 Physics 2A				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am lectures; one problem solving workshop and lab chosen from Tue, Thu or Fri (2.00 pm - 5.30 pm); one tutorial to be arranged.			
This module covers the subjects of mechanics, special relativity, oscillations, and thermal physics. It is suitable for those who have taken the specified first year modules in physics and mathematics, or have good Advanced Higher or A-level passes or equivalent in physics and mathematics. It includes lectures on the dynamics of particles and rigid bodies, Einstein's special theory of relativity, free, forced and damped harmonic motion, and lectures on thermal physics including elementary thermodynamics and the notion of entropy.				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Single and Joint Honours Theoretical Physics			
Pre-requisite(s):	PH1011, PH1012 and MT1002; alternatively passes in Advanced Higher Physics and Mathematics or A-Level Physics and Mathematics, both normally at grade A or equivalent.			
Anti-requisite(s):	AS1002	Required for:	PH3073, PH4038 and all other honours modules in physics and astronomy	
Learning and teaching methods and delivery:	Weekly contact: 4 or 5 lectures, 1 workshop, 1 tutorial and 1 x 2.5-hour laboratory.			
	Scheduled learning: 99 hours		Guided independent study: 201 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%, Class Test = 10%, Laboratory work = 25%, lectures and pre-lecture questions = 5%			
Re-Assessment pattern:	3-hour Written Resit Examination = 60%, combined with existing Class Test = 10%, Laboratory Work = 25%, and lecture and pre-lecture questions = 5%.			
Module Co-ordinator:	Dr P Cruickshank			
Lecturer(s)/Tutor(s):	Dr P Cruickshank, Dr G Smith, Prof S Lee, Dr C Baily, Dr I Leonhardt, Dr C Rae			

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PH2012 Physics 2B				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	10.00 am lectures; one problem solving workshop and lab chosen from Tue, Thu or Fri (2.00 pm - 5.30 pm); one tutorial to be arranged.			
<p>This module covers the subjects of quantum physics, electricity and magnetism and classical waves. It is suitable for those who have taken the specified first year modules in physics and mathematics, or have good Advanced Higher or A-Level passes or equivalent in physics and mathematics. It includes lectures on the origin of Schrödinger's equation in quantum mechanics and its solution for simple one-dimensional potentials; an elementary introduction to the electromagnetic field comprising electrostatics, magnetostatics, electromagnetic induction and circuit theory; and lectures on waves, acoustics, polarisation of light, and interference.</p>				
Programme module type:	Compulsory for Astrophysics, Single and Joint Honours Physics, Single and Joint Honours Theoretical Physics			
Pre-requisite(s):	PH2011*. Also PH1011, PH1012 and MT1002; alternatively passes in Advanced Higher Physics and Mathematics or A-Level Physics and Mathematics, both normally at grade A. *the School may be willing to waive in special cases.			
Required for:	AS4010, AS4011, PH3007, PH3081, PH3082, PH4022, and all other AS and PH modules at levels 3, 4, and 5.			
Learning and teaching methods and delivery:	Weekly contact: 4 or 5 lectures, 1 workshop, 1 tutorial and 1 x 2.5-hour laboratory.			
	Scheduled learning: 98 hours		Guided independent study: 202 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%, Class Test = 10%, Laboratory work = 25% , lecture and pre-lecture questions = 5%			
Re-Assessment pattern:	3-hour Written Resit Examination = 60%, combined with existing Class Test = 10%, Laboratory Work = 25% and lecture and pre-lecture questions = 5%.			
Module Co-ordinator:	Dr P Cruickshank			
Lecturer(s)/Tutor(s):	Dr P Cruickshank, Dr C Baily, Dr B Sinclair, Dr C Rae			

School of Psychology & Neuroscience

Psychology (PS) modules

PS1001 Psychology 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lecture 12-1:00 pm Mon, Wed, Thu & Fri. 2-hour practical: one of Mon 10-12, 2-4, 4-6, Tues 9-11, 11-1, 2-4			
This module aims (i) to provide an introduction to the theoretical foundations, historical perspectives and modern developments of psychology; (ii) to provide an introduction to the variety of subjects which make up contemporary psychology; (iii) to provide a thorough grounding in the empirical basis of psychology. Lectures comprise the principal teaching method. In addition, a specialised methodology and practical course will introduce methods of research including experimental design, analysis and interpretation of results. The skills necessary for writing research reports will be stressed. It will be assumed that entrants have no previous knowledge of psychology.				
Programme module type:	Compulsory for Neuroscience and all degrees involving Psychology			
Required for:	PS2001, PS2002			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures and 1 x 2-hour laboratory.			
	Scheduled learning: 66 hours		Guided independent study: 134 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 Co-ordinator:	P J Miles			
Lecturer(s)/Tutor(s):	Team taught			

PS1002 Psychology 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lecture 12-1:00pm Mon, Wed, Thu & Fri. 2-hour practical: one of Mon 10-12, 2-4, 4-6, Tues 9-11, 11-1, 2-4			
This module aims (i) to provide an introduction to the theoretical foundations, historical perspectives and modern developments of psychology; (ii) to provide an introduction to the variety of subjects which make up contemporary psychology; (iii) to provide a thorough grounding in the empirical basis of psychology. The principal teaching method for PS1002 is formal lectures, with a continuation of the specialised methodology and practical course exploring methods of research. It will be assumed that students have taken PS1001 and will therefore have some experience in methodology and writing research reports.				
Programme module type:	Compulsory for Neuroscience and all degrees involving Psychology			
Required for:	PS2001, PS2002			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures and 1 x 2-hour laboratory.			
	Scheduled learning: 66 hours		Guided independent study: 134 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 Co-ordinator:	P J Miles			
Lecturer(s)/Tutor(s):	Team taught			

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PS2001 Psychology 1				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lecture 10-11.00 am Mon, Tue, Wed, Fri; 3 hour practical (one of Wed 2-5pm, Thur 10-1pm, Thur 3-6pm)			
<p>This module uses PS1001 and PS1002 as the foundation for a more advanced treatment of a number of areas in psychology. In this way, and in conjunction with PS2002, it forms a sound preparation for Honours Psychology. It also provides greater depth of understanding of psychology for those who are taking the module as part of a more general course. Module PS2001 complements PS2002; together, the two modules involve advanced treatment of the following areas of psychology: the relations between brain and behaviour; cognition; perception; comparative aspects of behaviour; social and health psychology. It also contains a methodology component covering laboratory and field techniques; no methodological grounding beyond PS1002 will be assumed.</p>				
Programme module type:	Compulsory for Neuroscience and all degrees involving Psychology			
Pre-requisite(s):	PS1001, PS1002			
Required for:	PS2002			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 x 3-hour laboratory per week and 3 x 1-hour course-related tutorials per semester.			
	Scheduled learning: 80 hours		Guided independent study: 220 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 3-hour Written Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	P L Gardner			
Lecturer(s)/Tutor(s):	Team taught			

PS2002 Psychology 2				
SCOTCAT Credits:	30	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 10-11:00am Mon, Tue, Wed, Fri; 3-hour practical (one of Wed 2-5pm, Thu 10-1pm, Thu 3-6pm)			
<p>This module uses PS1001 and PS1002 as the foundation for a more advanced treatment of a number of areas in psychology and extends the range of teaching available in PS2001 to complete the preparation for Honours Psychology. It also provides greater depth of understanding of psychology for those who are taking the module as part of a more general course. Module PS2002 involves advanced treatment of the following areas of psychology, complementing PS2001: the relations between brain and behaviour; cognition; perception; comparative aspects of behaviour; social and health psychology. It also contains a methodology component covering laboratory and field techniques; grounding in the methodological skills of PS2001 will be assumed.</p>				
Programme module type:	Compulsory for Neuroscience and all degrees involving Psychology			
Pre-requisite(s):	PS1001, PS1002, PS2001			
Learning and teaching methods and delivery:	Weekly contact: 4 lectures, 1 x 3-hour laboratory per week and 3 x 1-hour course-related tutorials per semester.			
	Scheduled learning: 80 hours		Guided independent study: 220 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 3-hour Written Examination = 75%, Coursework = 25%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Mr P L Gardner			
Lecturer(s)/Tutor(s):	Team taught			

Interdisciplinary (ID) Modules

ID1003 Great Ideas 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7			
Planned timetable:	1.00 pm Mon, 1.00 pm Tue, 1.00 pm Thu			
The aim of the module is to trace some of the major intellectual and societal threads in the development of modern civilisation: the 'canon' of modern thought. The module focuses on four themes: logic, reason, and evidence; religion and culture; economics and society; and technology. The aim throughout is to develop students' historical and cultural knowledge, along with their analytical and critical skills. Use is made of original source material where possible, and lectures are supplemented by facilitated discussion sessions.				
Programme module type:	Available to any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 2 to 3 lectures and 1 tutorial.			
	Scheduled learning: 40 hours		Guided independent study: 160 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 (4 questions) = 100%			
Module Co-ordinator:	Dr C Paxton			

ID1004 Great Ideas 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	1.00 pm Mon, 1.00 pm Tue, 1.00 pm Thu			
Students will be introduced to influential thinkers, theories and texts across four main themes: the nature of reality; matter and the cosmos and their representations in the Arts; the idea of rights; and the principle of evolution as applied within and beyond the biological sciences. Students will encounter thinkers from Plato to Einstein, via Newton, Kant, Wollstonecraft and Darwin. They will develop an appreciation of the wider importance of figures such as these to a range of human intellectual endeavour across disciplinary boundaries. Use is made of original source material where possible, and lectures are supplemented by facilitated discussion sessions. This module complements Great Ideas 1, but may be studied independently.				
Programme module type:	Available to any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures and 1 tutorial.			
	Scheduled learning: 42 hours		Guided independent study: 158 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Dr B Sachs			

Interdisciplinary 1000 & 2000 Level - 2016/7 - August 2016

ID1006 Astrobiology: The Search for Life in the Universe				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7			
Planned timetable:	1.00 pm			
<p>This module aims to lead students through the scientific quest for the origin of life on Earth and the prospect for finding life on other planets, both in our solar system and on habitable worlds elsewhere in the Galaxy. The course will cover diverse topics in biology, geology, astronomy and chemistry, which comprise the field of astrobiology. We will also discuss the societal implication of detecting life outside Earth. The course will start by studying the origins and evolution of life on Earth and will use this as a framework for how to search for life in our Solar System and beyond. Due to the wide range of scientific topics covered, the course will be suitable for non-science majors as well as those in the sciences. A key component of the course will be to examine science as a "way of knowing" by looking at the scientific process, how scientific theories are developed and refuted, and discuss the burden of proof for extraordinary claims.</p>				
Programme module type:	Optional for any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: Lectures (2 hours x 11 weeks) Practical sessions (1 hour x 11 weeks) Oral presentation (3 hours x 3 weeks)			
	Scheduled learning: 42 hours		Guided independent study: 158 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%			
Module Co-ordinator:	Dr M Claire			
Lecturer(s)/Tutor(s):	Team taught			

ID2003 Science Methods				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	1.00 pm Mon, 1.00 pm Tue, 4.00 pm Thu			
<p>This module provides an overview of the rationale, methods, history and philosophy of science. We explore the different definitions of science, the distinction between science and pseudo-science, the design of experiments, critical thinking, errors in reasoning, methods of making inferences and generalisations, the role of personal experience and anecdotes in science, the process of scientific publication and the role of anomalies in science. The module is collaboratively taught by staff from a number of schools in the university providing a useful methodological background for all science students.</p>				
Programme module type:	Available to any degree programme.			
Learning and teaching methods and delivery:	Weekly contact: 2 lectures and 1 practical class.			
	Scheduled learning: 33 hours		Guided independent study: 67 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 1.5-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr C G M Paxton, Mathematics & Statistics			
Lecturer(s)/Tutor(s):	Dr C G M Paxton, Dr E Rexstad, TBC			

ID2005 Scientific Thinking			
SCOTCAT Credits:	15	SCQF Level 9	Semester: 1
Academic year:	2016/7 & 2017/8		
Planned timetable:	Lectures: 1.00 pm Mon, Tue, Wed Tutorials: 4.00 pm - 6.00 pm Thu		
<p>This module provides an overview of the rationale, methods, history & philosophy of science and is a more detailed, 15-credit version of ID2003. We explore the different definitions of science, the distinction between science and non-science, the design of experiments, errors in reasoning, critical thinking, personal experience & science, the grammar of graphics, the process of science, peer review, research reproducibility, data cataloguing, the treatment of anomalies & outliers, and ethics. The module is collaboratively taught by staff from a number of Schools of the University providing a useful methodological background for all science students.</p>			
Programme module type:	Optional for any degree programme.		
Anti-requisite(s):	ID2003		
Learning and teaching methods and delivery:	Weekly contact: 3 x 1-hour lectures (x 11 weeks), 1-hour tutorials (x 8 weeks), 1-hour seminar (x 1 week) 2-hour practical (x 1 week), 6 hours film/video viewing in total.		
	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: 1.75-hour Written Examination = 50%, Coursework = 50%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr C Paxton		
Lecturer(s)/Tutor(s):	Team taught		

English Language Teaching (ET) modules

ET1001 English as a Foreign Language A				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Please note that students on degree programmes in St Andrews who use English as an Additional Language cannot take 1000 and 2000 level ET modules concurrently. However, this restriction does not apply to exchange students, who can take 1000 and 2000 level ET modules concurrently			
Planned timetable:	3.00 pm Mon, Tue, Thu, Fri			
This module is designed to improve the communicative English skills of students whose first language is not English. It aims to develop skills such as problem-solving and expressing opinions in English. The purpose of the module is to develop students' confidence in the day-to-day use of English outside the classroom, helping students to communicate more effectively in writing and speaking in a variety of non-academic styles. Lectures on British culture will enhance the students' understanding of life in twenty-first century Britain.				
Programme module type:	Available to any degree programme			
Pre-requisite(s):	User of English as an Additional Language			
Anti-requisite(s):	Native speaker of English, a pass at Higher, A-Level or equivalent in English, ET1009			
Learning and teaching methods and delivery:	Weekly contact: 4 compulsory classes			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Mr J Hughes			
Lecturer(s)/Tutor(s):	Ms K Tavakoli			

English Language Teaching 1000 & 2000 Level - 2016/7 - August 2016

ET1002 English as a Foreign Language B			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 2
Academic year:	2016/7 & 2017/8		
Availability restrictions:	Please note that students on degree programmes in St Andrews who use English as an Additional Language cannot take 1000 and 2000 level ET modules concurrently. However, this restriction does not apply to exchange students, who can take 1000 and 2000 level ET modules concurrently.		
Planned timetable:	3.00 pm Mon, Tue, Thu, Fri		
This module examines aspects and genres of English, such as idiomatic language, journalese, and drama. The approach is similar to ET1001 in that developing communicative skills is regarded as the main aim of the module. The module will examine what constitutes writing appropriately and effectively in a variety of non-academic contexts. Lectures in aspects of British literature and cinema will provide a greater understanding of British culture.			
Programme module type:	Available to any degree programme		
Pre-requisite(s):	User of English as an Additional Language		
Anti-requisite(s):	Native speaker of English, a pass at Higher, A-Level or equivalent in English, ET1009		
Learning and teaching methods and delivery:	Weekly contact: 4 compulsory classes		
	Scheduled learning: 44 hours	Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%		
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Mr J Hughes		
Lecturer(s)/Tutor(s):	Ms K Tavakoli		

English Language Teaching - 1000 & 2000 Level - 2016/7 - August 2016

ET1009 English as a Foreign Language for Scientists 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Only if sufficient student demand			
Planned timetable:	5.00 pm Mon, Tue, Thu, Fri			
	This module is aimed at improving the ability of science students who do not have English as their first language to deal more effectively with the language demands of a science subject through developing communicative skills within both academic and non-academic settings. The main focus will be on speaking, listening and building vocabulary, whilst written work will concentrate on common tasks set within Science modules.			
Programme module type:	Available to any degree programme in the Faculty of Science			
Pre-requisite(s):	User of English as an Additional Language, studying at least one Science module			
Anti-requisite(s):	Native Speaker of English; ET1001; a pass at Higher, A Level or equivalent in English			
Learning and teaching methods and delivery:	Weekly contact: 4 compulsory classes			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 20%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 30%, Oral Interview = 20%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 40%, 1-hour Listening Examination = 30%, Oral Interview = 30%			
Module Co-ordinator:	Ms R Doig			

ET2001 Academic English 1				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Please note that students on degree programmes in St Andrews who use English as an Additional Language cannot take 1000 and 2000 level ET modules concurrently. However, this restriction does not apply to exchange students, who can take 1000 and 2000 level ET modules concurrently			
Planned timetable:	4.00 pm Mon, Tue, Thu, Fri			
	This module provides students with detailed knowledge of, and practice in, the conventions of Academic English. The module will focus particularly on the skills required for essay writing and for making oral presentations. There will be an emphasis on improved academic study skills, including reading academic texts and note-taking in lectures.			
Programme module type:	Available to any degree programme			
Pre-requisite(s):	User of English as an Additional Language			
Anti-requisite(s):	Native Speaker of English, a pass at Higher, A-Level or equivalent in English			
Learning and teaching methods and delivery:	Weekly contact: 4 compulsory classes			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%			
Re-Assessment pattern:	3-hour Written Examination = 100%			
Module Co-ordinator:	Ms K M George-Briant			
Lecturer(s)/Tutor(s):	Mr J Harvey			

English Language Teaching 1000 & 2000 Level - 2016/7 - August 2016

ET2002 Academic English 2			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7 & 2017/8		
Availability restrictions:	Please note that students on degree programmes in St Andrews who use English as an Additional Language cannot take 1000 and 2000 level ET modules concurrently. However, this restriction does not apply to exchange students, who can take 1000 and 2000 level ET modules concurrently		
Planned timetable:	4.00 pm Mon, Tue, Thu, Fri		
This module provides students with a more advanced understanding of, and practice in, the conventions of Academic English in a British university context. The module will focus particularly on writing skills and seminar skills. There will be an emphasis on improving students' ability to study proactively and productively, developing the ability to handle sources: reading academic texts effectively and developing note-taking and summarising skills. Teaching is conducted in small groups, with active student participation required.			
Programme module type:	Available to any degree programme		
Pre-requisite(s):	User of English as an Additional Language		
Anti-requisite(s):	Native Speaker of English, a pass at Higher, A-Level or equivalent in English		
Learning and teaching methods and delivery:	Weekly contact: 4 compulsory classes		
	Scheduled learning: 44 hours	Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 20%, Practical Examinations = 20%, Coursework = 60%		
	As used by St Andrews: 2-hour Written Examination = 20%, 1 - 1.5-hour Listening Examination = 20%, Coursework = 60%		
Re-Assessment pattern:	2-hour Written Examination = 50% , 1 - 1.5-hour Listening Examination = 50%		
Module Co-ordinator:	Ms K M George-Briant		
Lecturer(s)/Tutor(s):	Mr J Harvey		

Linguistics (LI) modules

LI1001 Foundations of Language 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 2.00 pm Mon, Tue, Thu Tutorial: 2.00 pm Fri			
This module will provide an introduction to a variety of areas in Linguistics. In particular, it will analyse the structures and functions of language and will consist of a study of grammatical structures in English; the ways in which meaning is constructed from morpheme to text and the system of sounds in English and pronunciation. There will be an element of active participation in the lectures as well as in the seminars.				
Programme module type:	Available to any degree programme LI1001 is designed to be taken by ANY student, i.e. it is NOT specifically for students who use English as an Additional Language.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures plus 1 seminar			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Ms L Thirkell			
Lecturer(s)/Tutor(s):	Mr J Harvey, Ms A Malcolm-Smith, Ms K Tavakoli			

LI1002 Foundations of Language 2				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Planned timetable:	Lectures: 2.00 pm Mon, Tue, Thu Tutorial: 2.00 pm Fri			
This module will consider three important aspects of language: Language and the Mind, which examines how language is acquired or learned and then stored; Language and Society, which considers the way language is shaped by context and culture; and Teaching Language, which considers how linguistic and educational theory shapes language teaching. There will be an element of active participation in the lectures as well as in the seminars.				
Programme module type:	Available to any degree programme LI1002 is designed to be taken by ANY student, i.e. it is NOT specifically for students who use English as an additional language.			
Learning and teaching methods and delivery:	Weekly contact: 3 lectures plus 1 seminar			
	Scheduled learning: 44 hours		Guided independent study: 156 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Ms L Thirkell			
Lecturer(s)/Tutor(s):	Mr J Harvey, Ms A Malcolm-Smith, Ms K Tavakoli			

Lifelong & Flexible Learning Programme

Modules are available in the following subject areas (click to go straight to those modules):

Art History	Astronomy
Biology	Earth_Sciences
English	Geography
History	Information_Technology
Management	Philosophy
Psychology	Social_Anthropology

AH1901 Western Art from Renaissance to Baroque				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Tue 6.30 - 9.30 pm			
The module will provide a survey of western European art from the late Middle Ages to the end of the eighteenth century. Each lecture will focus on a particular work of art or monument, chosen to illustrate not only the achievement of great individual artists (including Michelangelo, Caravaggio, Rembrandt), but also different media (painting, sculpture, architecture, print-making). Attention will also be paid to different art-historical approaches to the art of the Renaissance and Baroque periods.				
Programme module type:	Evening Degree programme			
Anti-requisite(s):	AH1001 or AH1003			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lectures and tutorials (x 14 weeks), 1.5-hour optional office hour (x 14 weeks), 1 x 8-hour field trip.			
	Scheduled learning: 64 hours		Guided independent study: 136 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: Coursework (1 x 1,000 word Visual Analysis Paper = 25%, 2 visual tests = 25%, 1 x 2,000-word research essay = 50%) = 100%			
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr W Rough			
Lecturer(s)/Tutor(s):	Team taught			

Lifelong & Flexible Learning - 2016/7 - August 2016

AH2901 Art in the Modern Period				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Tue, 6.30 - 9.30 pm			
The module will provide a survey of western European art from the end of the eighteenth century to the present day. Each lecture will focus on a particular work of art, monument or movement, chosen to illustrate not only the achievement of great individual artists (including Van Gogh, Cezanne, and Picasso), but also different media (painting, sculpture, architecture, photography, applied arts). Attention will also be paid to differing art-historical approaches to the art of the Modern period.				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	AH1901			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lectures and tutorials (x 14 weeks), 1.5-hour optional office hour (x 14 weeks), 1 x 8-hour fieldtrip.			
	Scheduled learning: 64 hours		Guided independent study: 136 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: Coursework (1 x 1,000 word Visual Analysis Paper = 25%, 2 visual tests = 25% 1 x 2,000 word essay = 50%) = 100%			
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr W Rough			
Lecturer(s)/Tutor(s):	Team taught			

AH3901 Walter Richard Sickert and European Art c. 1880 - 1940				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Mon, 6.30 - 9.30 pm			
The module will examine European Art c.1880 - c.1940 paying particular attention to the artistic development of the British painter Walter Richard Sickert and his relationship to European painting and illustration. It will also broadly explore the various artistic movements and new developments (i.e. Impressionism, Post-Impressionism, and the Avant-Garde) during this period, particularly in relation to Sickert and British art but also within European art as a whole. The module will also explore relevant themes and subjects developed by these movements and will explore a broad range of critical and theoretical texts, written both by Sickert and by a number of key figures during this period.				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	AH1901, AH2901			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session: lecture and tutorial (x 14 weeks), optional office hour (x 14 weeks), 9-hour fieldtrip.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%			
	As used by St Andrews: Coursework (2 Visual Tests = 25%, 1 x 3,500-word essay = 50%, 1,500-word Visual Analysis Paper = 25%) = 100%			
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr W Rough			
Lecturer(s)/Tutor(s):	Dr W Rough			

AH3902 The Country, City and Society in Nineteenth-Century French Art				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Mon 6.30 - 9.30 pm			
This module will examine French Art, Society and Culture as demonstrated through a study of Realist, Impressionist, Post-Impressionist and Avant-Garde paintings c.1840 - c.1900. In particular it will explore the various social and class themes affecting the notions of City versus Country. It will also explore the variety of contemporary artistic and literary texts paying particular attention to the broad range of critical and theoretical texts, written by key figures, during this period. It will also explore modern critical theories and readings of the works and the period in general.				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	AH1901, AH2901	Anti-requisite(s):	AH3111	
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session: lecture and tutorial (x 14 weeks), optional office hour (x 14 weeks), 9-hour fieldtrip.			
	Scheduled learning: 65 hours		Guided independent study: 235 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Written Assessment = 100%			
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr W Rough			
Lecturer(s)/Tutor(s):	Dr W Rough			

AH3904 From Hogarth to Sickert: British Painting and the Theatre (1740 - 1930)				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Available only to students on the Evening Degree Programme.			
Planned timetable:	Mon, 6.30 pm - 9.30 pm			
As Walter Sickert famously stated in 1934: "The influence between brush and mask has at the best periods been reciprocal". This relationship, between painting and the theatre, has a long and productive history in British Art and Theatre History. From Hogarth's David Garrick as Richard III (1745) to Sickert's merging of tradition and the modern in his Shakespearean portraits of the 1930s, we will explore this interrelationship through a series of works by artists such as Joshua Reynolds, Henry Fuseli, John Everett Millais and Lawrence Alma-Tadema, amongst others. In addition, through inspiration from theatre productions and artist's set designs for the theatre we will explore how the theatre used artists and their works as inspiration and guidance in their productions. Simultaneously, through an analysis of theatre productions and artworks, we will investigate and discuss just how these artists reveal the changing social, cultural and artistic concerns of their day.				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	AH1901 AH2901			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session, lecture and tutorial (x 14 weeks), optional office hour (x 14 weeks), 1 x 9-hour fieldtrip.			
	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% (3,500-word Research Essay = 50%, 2,000-word Visual Review Paper = 25%, 2 Visual Analysis Tests = 12.5% each)			
Re-Assessment pattern:	1 x Written Assignment to be agreed by the Board of Examiners			
Module Co-ordinator:	Dr W Rough			
Lecturer(s)/Tutor(s):	Dr W Rough			

Lifelong & Flexible Learning - 2016/7 - August 2016

AS1901 The Physical Universe				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Wed 6.30 - 9.30 pm			
This module presents a descriptive, non-mathematical account of the physical universe. It is divided into two components: concepts in astronomy, dealing with our understandings of the properties and ages of planets, stars, galaxies, and their distributions in space, cosmology and the origin of the Universe; and concepts in physics, dealing with our understandings of the nature of light and matter, the structure of atoms, fundamental particles and their links to cosmology.				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	Admission to the Evening Degree Programme			
Anti-requisite(s):	AS1001, AS1002, AS1101, PH1011, PH1012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.75-hour session: lectures and/or labs or seminars.			
	Scheduled learning: 38 hours		Guided independent study: 162 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: Coursework (essays) = 50%, Class tests = 50%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr L Hadfield			
Lecturer(s)/Tutor(s):	Dr L Hadfield, Dr C Cyganowski, Dr H Zhao (TBC)			

BL1901 Human Biology				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Tue 6.30 - 9.30 pm			
Lectures and seminars provide an introduction to the varied fields of study that relate to human biology. The module is structured such that we begin by looking at individual molecules and cells, and then examine how they build together to form integrated systems within our bodies, such as the nervous system and immune system. A wide variety of material is covered, ranging from anatomy, physiology and neuroscience through to digestion, cloning and genetics.				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	Entry to the Part-time Evening Degree programme			
Anti-requisite(s):	BL1004			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5 hour session: lectures and/or seminars.			
	Scheduled learning: 27 hours		Guided independent study: 173 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%			
	As used by St Andrews: Class Tests = 70%, Coursework = 30%			
Re-Assessment pattern:	Resubmission of failed item(s) of assessment			
Module Co-ordinator:	Dr V Dietrich-Bischoff			
Lecturer(s)/Tutor(s):	various staff in the School of Biology			

BL2901 Environmental Biology				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Tue 6.30 - 9.30 pm			
Lectures and seminars provide an introduction to environmental and evolutionary topics. Topics include: basic evolutionary theory, and an introduction to the evolution of diversity; animal and plant design, and current patterns of plant and animal diversity; global environments and the biotic challenges they represent: how plants and animals adapt to their environments; current and future environmental problems.				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	BL1901			
Anti-requisite(s):	BL1002, BL2001, BL2003, BL2004, BL2005			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lectures and/or seminars.			
	Scheduled learning: 27 hours		Guided independent study: 173 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Examination = 50%, Coursework = 50%			
Re-Assessment pattern:	2-hour Written Examination = 50%, Existing Coursework = 50%			
Module Co-ordinator:	Dr I M Matthews			
Lecturer(s)/Tutor(s):	Dr I M Matthews			

EN1901 Reading English				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Thu, 6.30 - 9.30 pm			
In this module students are introduced to a small number of texts, in prose and verse, from the nineteenth and twentieth centuries. Emphasis is laid on (i) practical criticism, (ii) close reading, and (iii) the importance of literary-historical context.				
Programme module type:	Evening Degree Programme			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lecture and seminar, and 1 optional consultative hour.			
	Scheduled learning: 45 hours		Guided independent study: 155 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	Team taught			

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EN2901 Comedy in English Literature				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Thu, 6.30 - 9.30 pm			
<p>This module builds on the work of EN1901 (Reading English) to give extended and deeper understanding of major literary texts, in drama, verse and prose, from the sixteenth century to the mid-twentieth century. The focus of the module is on comedy and comic forms of writing. This will include an introduction to theories of comedy and study of techniques of humorous writing. Since comedy is often used to comment on and criticise society, the relationship between writers and texts and the historical and social conditions of their times will also be a theme of the module, with particular reference to gender issues. The authors to be studied will include plays, poems and novels from Shakespeare to the present day.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	EN1901	Anti-requisite(s):	EN2002	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lecture and seminar, and 1 optional consultative hour.			
	Scheduled learning: 45 hours		Guided independent study: 155 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	Team taught			

EN3903 The English Poetic Tradition				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	Whole Year
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Fortnightly classes on Tue 6.30 - 9 pm.			
<p>This module covers aspects of the English poetic tradition from Chaucer to the twentieth century. The emphasis will be on the study of poems and groups of poems, linked by genre, theme or period, rather than the study of single authors, and will build on the study of poetry in the lower level Evening Degree modules EN1901 and EN2901.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	EN1901, EN2901			
Anti-requisite(s):	Any full-time module in English			
Learning and teaching methods and delivery:	Weekly contact: The module will be taught in a series of fortnightly seminars, usually consisting of an introductory lecture or formal presentation by a member of the School followed by group discussion, in which students will be expected to participate. There will be typically eight meetings in each semester, each lasting from 6.30 pm to 9.15pm.			
	Scheduled learning: 41 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 (4 x 2,000 - 2,500 word essays) = 100%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Byatt			
Lecturer(s)/Tutor(s):	Team taught			

ES1901 Understanding Geology				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Mon 6.30 - 9.30 pm			
This module introduces the student to modern theories of the Earth's formation, how it works and how it has evolved through time. Lectures and practical sessions will cover the study of crystals, minerals, rocks and fossils. The formation of igneous, sedimentary and metamorphic rocks, and of economic mineral deposits, will be considered within the context of Plate Tectonics. The fascinating geology of Scotland will be described and the module culminates with a short field excursion to examine rocks around St Andrews.				
Programme module type:	Evening Degree Programme			
Anti-requisite(s):	ES1001 or ES1002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session: lectures and practicals, plus fieldwork and tutorials			
	Scheduled learning: 39 hours		Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 33%, Practical Examinations = 0%, Coursework = 67%			
	As used by St Andrews: 2-hour Written Examination = 33%, Coursework = 67%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr J Cloutier			
Lecturer(s)/Tutor(s):	Earth and Environmental Sciences staff			

GG1901 The Earth in Crisis? Understanding Current Global Environmental Issues				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Thu, 6.20 - 9.30 pm			
This module explores the geographical, scientific, social and political dimensions of a range of current environmental issues such as population growth, land degradation, biodiversity, atmospheric and oceanic pollution, anthropogenic climate change, food supply and the exploitation of natural resources, and the implications of these issues for the future of both the global environment and human societies, particularly in the context of sustainable development. The range of issues selected for consideration in any year will be dependent on staff availability.				
Programme module type:	Evening Degree Programme			
Anti-requisite(s):	GG1002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lectures and seminars.			
	Scheduled learning: 27 hours		Guided independent study: 173 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 33%, Practical Examinations = 33%, Coursework = 34%			
	As used by St Andrews: Written Examination = 33%, Practical Examination = 33%, Coursework = 34%			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr P R Cundill			
Lecturer(s)/Tutor(s):	Dr P R Cundill			

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MO2901 Europe in the Twentieth Century			
SCOTCAT Credits:	20	SCQF Level 8	Semester: 2
Academic year:	2016/7		
Availability restrictions:	Available only to students on the Evening Degree Programme		
Planned timetable:	Mon 6.30 - 9.30 pm		
<p>This survey of twentieth-century history focuses on Europe, but includes relations and involvement with the USA. It is divided into three major themes: the First World War, the Second World War and The Cold War. Students will be assessed in each of these areas. Each week's class, in the form of a lecture followed by a small group tutorial, focuses on a specific topic such as the Russian Revolution, Nazi foreign policy or The Sixties. Issues which run through the module as a whole include nationalism, the changing nature of warfare, individuals in history and the role of the masses. Students will be introduced to the events of this period, to historical debate about these events and to the use of primary sources in historical analysis.</p>			
Programme module type:	Evening Degree Programme		
Pre-requisite(s):	Entry to the Part-time Evening Degree Programme	Anti-requisite(s):	MO1003, MO1004
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session (lecture plus tutorial).		
	Scheduled learning: 33 hours	Guided independent study: 167 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:	2-Hour Written Examination = 100%		
Module Co-ordinator:	Dr N Papadogiannis		

SC1901 Mediaeval Scotland 1100 - 1513			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 1
Academic year:	2016/7		
Availability restrictions:	Available only to students on the Evening Degree Programme		
Planned timetable:	Mon, 6.30 - 9.30 pm		
<p>This module offers a view of the emergence and development of Scotland during the mediaeval period, from the rule of the Canmore dynasty until the reign of James IV. Particular emphasis is placed on the themes of national identity, tensions between central government and outlying areas, the development and influence of the Scottish Church and the complex issues of warfare and diplomacy with England and contemporary European powers.</p>			
Programme module type:	Evening Degree Programme		
Pre-requisite(s):	Entry to the Part-time Evening Degree programme		
Anti-requisite(s):	SC1001, SC2003		
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lectures and seminars.		
	Scheduled learning: 27 hours	Guided independent study: 173 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 30%, Practical Examinations = 0%, Coursework = 70%		
	As used by St Andrews: 3-hour Written Examination = 30%, Coursework = 70%		
Re-Assessment pattern:	2-hour Written Examination = 100%		
Module Co-ordinator:	Dr C A McGladdery		
Lecturer(s)/Tutor(s):	Dr C A McGladdery		

SC3903 History of Mediaeval St Andrews (EV)			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 1
Academic year:	2016/7		
Availability restrictions:	Available only to students on the Evening Degree Programme		
Planned timetable:	Thu 6.30 pm - 8.30 pm		
<p>The unique importance of St Andrews as an ancient site that developed into the ecclesiastical capital of Scotland during the mediaeval period, attracting international pilgrimage and, in the fifteenth century, the establishment of Scotland's first university, makes it an intriguing focus for study. The development of the burgh and its retention of much of its mediaeval layout allows it to be investigated through both documentary and material resources, particularly within a wider context of urban development throughout Western Europe during this period. By examining a wide range of sources from the earliest available evidence through to the Reformation, various aspects of life in mediaeval St Andrews may be analysed and understood.</p>			
Programme module type:	Evening Degree Programme		
Pre-requisite(s):	SC1901, MO2901	Anti-requisite(s):	ME3309
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour seminar.		
	Scheduled learning: 22 hours	Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%		
	As used by St Andrews: 3-hour Written Examination = 40%, Coursework = 60%		
Re-Assessment pattern:	4,000- to 5,000-word essay = 100%		
Module Co-ordinator:	Dr C McGladdery		
Lecturer(s)/Tutor(s):	Dr C McGladdery		

IS1901 Information Technology 1			
SCOTCAT Credits:	20	SCQF Level 7	Semester: 1
Academic year:	2016/7		
Availability restrictions:	Available only to students on the Evening Degree Programme		
Planned timetable:	Tue 6.30 - 9.30 pm		
<p>The module consists of two streams. One is a practical stream featuring commonly used application software for word processing, spreadsheets, presentations and web authoring. Topics covered in this stream will provide a range of transferable skills for use in the effective and efficient production of documents such as essays and CV's, producing and delivering presentations, and evaluating and contributing to the World Wide Web. The other is a conceptual stream aimed at presenting an overview of the place of computers in society with perspectives relating to some of the historical, social and ethical issues that should be considered when using computers in a business, educational or home environment.</p>			
Programme module type:	Evening Degree Programme		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session: lectures, tutorials, seminars, presentations and supervised practicals, home study, essays and practical work.		
	Scheduled learning: 39 hours	Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100% (including class tests)		
Re-Assessment pattern:	No Re-Assessment available		
Module Co-ordinator:	evening-coord-cs@st-andrews.ac.uk		

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IS2901 Information Technology 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Tue 6.30 - 9.30 pm			
<p>We are increasingly reliant on Internet-based services for a variety of routine tasks, for example, searching: Google; e-commerce: Amazon; e-government: Fife Council; travel: Network Rail timetable; management of educational processes: MMS. This module provides insight into the technologies and concepts that are used in the design, construction and deployment of such services. The main practical focus will be on the design and use of databases and advanced authoring, leading to an understanding of their combined use in the production of dynamic websites. This will be complemented by a conceptual stream drawn from areas within Electronic Commerce. No more than 50% of the material in this module will involve working directly with software, to ensure that the module is amenable to home study.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	IS1901 or Prior Accreditation of Learning or by special permission of the School			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session: lectures, tutorials, seminars, presentations and supervised practicals.			
	Scheduled learning: 39 hours		Guided independent study: 161 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (including class tests)			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	evening-coord-cs@st-andrews.ac.uk			

IS3901 Information Technology 3				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Tue 6.30 pm - 9.30 pm			
<p>This third-level Evening Degree module develops the topics introduced in IS2901. It provides a deeper understanding of the technologies and concepts underlying the design and implementation of database-driven web applications and introduces the complementary concepts of information security and usability in the context of interactive websites. The module consists of 2 streams: practical and conceptual. The practical stream focuses on the use of a scripting language in the creation of dynamic web pages; the conceptual stream draws from selected topics in Information Security, Usability, and Database design theory. No more than 50% of the material in this module will involve working directly with software, to ensure that the module is amenable to home study.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	IS2901 or Prior Accreditation of Learning or by special permission of the School			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session per week: lectures, tutorials, seminars, presentations and supervised practicals.			
	Scheduled learning: 39 hours		Guided independent study: 261 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100% (including a class test)			
Re-Assessment pattern:	No Re-Assessment available			
Module Co-ordinator:	evening-coord-cs@st-andrews.ac.uk			

MN2901 The Effective Manager				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Thu 6.30 pm - 9.00 pm			
<p>The underpinnings of effective management are considered in this module which provides students with the opportunity to examine critically the nature of contemporary thinking about management in organisations and the contexts within which it takes place. Students are encouraged to relate the content to their own management experience and practice and to develop a reflexive approach to their own management development. The module will feature an interactive style of teaching/learning which will emphasise small group work, practical exercises and discussions alongside the traditional lecture. Assessment for the module will be based on individual assignments that will emphasise the practical application of knowledge and understanding. There are no examinations for this module.</p>				
Programme module type:	Evening Degree programme			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session (lecture, seminar, practical).			
	Scheduled learning: 50 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:	An alternative project of up to 3,000 words = 100%			
Module Co-ordinator:	M J Dowling			
Lecturer(s)/Tutor(s):	Team Taught			

PS1901 Introduction to Psychology 1				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Thu 6.30 - 9.30 pm			
<p>This module is designed to introduce the principles of some of the key areas of modern psychology, and to demonstrate that it is a diverse and interdisciplinary science. A major component of the module will involve treatment of the underlying psychological theory and mechanisms. Tutorial and practical sessions will introduce and demonstrate some of the principles and techniques used in psychological research. It will be assumed that entrants have no scientific background or previous knowledge of psychology.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	Entry to the Part-time Evening Degree programme			
Anti-requisite(s):	PS1001 and PS1002			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lectures, practicals and tutorial work.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Mr P L Gardner			
Lecturer(s)/Tutor(s):	Mr P L Gardner, Dr S Pehrson			

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PS2901 Introduction to Psychology 2				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Thu 6.30 - 9.30 pm			
<p>This module uses PS1901 as a foundation for a more advanced treatment of key areas of psychology. The aim is to develop a more detailed appreciation of psychological science. A major component of the module involves the study of psychological theories and mechanisms that may operate in everyday life. Practicals and tutorial sessions will concentrate on the measurements of psychological effects and theoretical understanding.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	PS1901	Anti-requisite(s):	PS2001 and PS2002	
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lectures, practicals and tutorial work.			
	Scheduled learning: 30 hours		Guided independent study: 170 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr S Pulver			
Lecturer(s)/Tutor(s):	Dr S Pulver, Dr E Robbins			

PS3902 Theoretical Perspectives in Psychology				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Mon 6.30 - 9.30 pm			
<p>This module will take a theoretical approach to understanding key ideas at the heart of modern psychology. The aim here is to explore in detail several of the theoretical perspectives and approaches used in psychology to describe and explain human behaviour and mental processes. Students will explore how psychology approaches issues such as the nature of consciousness, defining and understanding 'normality' and 'abnormality' (from case studies to populations), the theory of mind, and the impact of evolution on the nature of being human. Current theories and debates will be studied from the perspective of individual staff members, and their research interests, within the School of Psychology. The focus will be on understanding concepts; the module is not intended to provide training in experimental psychology techniques or methodology.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	PS1901 and PS2901	Anti-requisite(s):	PS3901	
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour session: lectures and practicals.			
	Scheduled learning: 36 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Re-Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr D Vishwanath			
Lecturer(s)/Tutor(s):	Dr D Vishwanath, Dr C Cross			

PY1901 Morality and Human Nature				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	6.30 - 9.30 pm			
This module will address aspects of what it is to be human, and to be a moral agent confronted with particular moral issues in the world. We will consider how aspects of our human nature have a bearing on the nature of moral agency and moral responsibility (e.g. by exploring issues of personal identity and free will), as well as considering some pressing moral problems (such as life-and-death issues like euthanasia and abortion; and issues arising from obligations we have to others - human or nonhuman). This module will provide a useful and stimulating introduction to some of the core questions of philosophy, from metaphysics to ethics.				
Programme module type:	Evening Degree Programme			
Anti-requisite(s):	PY1103, PY1105, PY1801, PY1011			
Required for:	PY2902, PY2903			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5 hour session: lectures and tutorials.			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
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 totaling no more than 4,500 words			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	Team taught			

PY2902 Knowledge, Mind and Reality				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme.			
Planned timetable:	Wed 6.30 - 9.30 pm			
This module will acquaint students with a number of central topics in Epistemology, Philosophy of Mind, and Metaphysics. Students will have the opportunity to discuss and critically evaluate philosophical issues and problems relating to such matters as knowledge (e.g.: what constitutes knowledge? How should we respond to sceptical arguments that threaten the very possibility of knowledge?), the mind-body problem (e.g. is the mind the same thing as the brain? If not, what is it? Can the conscious mind be explained by science?), and metaphysical questions concerning such matters as the nature of objects, persons and causation, and the existence of God.				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	PY1901			
Anti-requisite(s):	PY1005, PY1006, PY2801, PY1010, PY2012			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session: lectures and tutorials			
	Scheduled learning: 35 hours		Guided independent study: 165 hours	
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 totaling no more than 6,000 words			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

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SA1901 An Introduction to Anthropology				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	Wed 6.30 pm - 9.30 pm			
<p>This module aims to introduce evening degree students to the subject of Social Anthropology. It combines an examination of some of the core theoretical debates of the discipline with close reading and analysis of some classic ethnographic texts. Students will learn about anthropological modes of thinking through case studies of particular cultures and societies around the world. They will also be introduced to the anthropological method of research and to some of the historical conditions for the subject's emergence and development over time. By the end of the module students will have a keen sense of what anthropologists do, how they look at the world and what terms of analysis they utilise. They will also have a strong sense of the plurality of cultures in the world and the limits of many aspects of their own society or culture. Anthropologists stress the importance of understanding other ways of life. It is this increased understanding of a shared planet that is the invaluable gift that anthropology has to offer.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	Entry to the Part-time Evening Degree programme			
Required for:	SA2901			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5 hour session: lectures and seminars.			
	Scheduled learning: 27 hours		Guided independent study: 173 hours	
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 x 2,000-word Essays = 100%			
Module Co-ordinator:	Dr M Wisdahl			
Lecturer(s)/Tutor(s):	Dr M Wisdahl			

SA2901 Today's World				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to students on the Evening Degree Programme			
Planned timetable:	6.30 - 9.30 pm			
<p>This module investigates ways in which anthropological ideas and approaches can be used to understand the complexities of today's world. This module will situate anthropological works dealing with important themes in current world: economic, social and political debates such as development, climate change, and the indigenous people's political movement, within wider past and present frameworks of anthropological thought. We aim to show Evening Degree students the importance of anthropology as a discipline in understanding contemporary social phenomena as well as reinforcing the anthropological understanding and tools they were introduced to in SA1901.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	SA1901			
Learning and teaching methods and delivery:	Weekly contact: 1 x 2.5-hour session per week: lectures and seminars.			
	Scheduled learning: 27 hours		Guided independent study: 173 hours	
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 = 100%			
Module Co-ordinator:	Dr M Wisdahl			
Lecturer(s)/Tutor(s):	Dr M Wisdahl			

SA3901 Ethnographic Project: Putting Anthropology to Practice in the 'Real' World				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	2
Academic year:	2016/7			
Availability restrictions:	Available only to Evening Degree students.			
Planned timetable:	Thu 6.30 pm - 9.30 pm			
<p>This module will allow you to finish your anthropological exploration in the Evening Degree by putting your knowledge into practice in the 'real' world by crafting, planning, researching, and writing your own short ethnographic research project. For this, you will be introduced to the main theories for social analysis in the discipline as well as exploring the anthropological method of enquiry through practical exercises. We will investigate how anthropological theory and research methods can be applied (and misapplied) in a range of practical everyday situations. By doing this, the module also invites you to assess the importance and applicability of social theory to today's world but also to debate on practical issues such as the ethics surrounding our research, the 'truth' status of ethnographic writing, or the power involved in the representation of anthropological subjects.</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	SA2901			
Learning and teaching methods and delivery:	Weekly contact: 1-hour lecture and 2-hour tutorials.			
	Scheduled learning: 72 hours		Guided independent study: 228 hours	
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 = 100%			
Module Co-ordinator:	Dr M Wisdahl			
Lecturer(s)/Tutor(s):	Dr M Wisdahl			

SA3902 An Anthropology of Global Social Issues				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2016/7			
Availability restrictions:	Available only to Evening Degree students.			
Planned timetable:	Thu 6.30 pm - 9.00 pm			
<p>This module invites students to critically assess what anthropological perspectives of the 'local' can contribute to an understanding of the 'global'. The module aims to show how ethnographically grounded research offers a unique lens for studying global social issues and new perspectives to guide action and policy aimed at tackling them. We will do this by approaching six global issues through ethnographic and theoretical perspectives to see how anthropology, more than an academic discipline, is a critical tool to approach the 'real' world. In doing so, we will get glimpses of anthropology's past, rethink its role in the present, and imagine its future(s).</p>				
Programme module type:	Evening Degree Programme			
Pre-requisite(s):	SA1901 and SA2901			
Learning and teaching methods and delivery:	Weekly contact: 1 x 1-hour lecture and 1 x 2-hour tutorial.			
	Scheduled learning: 36 hours		Guided independent study: 264 hours	
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 = 100%			
Module Co-ordinator:	TBC			
Lecturer(s)/Tutor(s):	TBC			

Distance Learning Modules

Philosophy

N.B. PY1801, PY1802, PY2801 and PY2801 are available ONLY to distance-learning students or Evening Degree students

PY1801 Ethical Issues (by Distance Learning)				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	(subject to sufficient student demand). Non-graduating distance-learning students only.			
Planned timetable:	No traditional classes: e-learning module.			
'Ethical Issues' provides an accessible and comprehensive introduction to the philosophical significance of the most pressing moral problems of today, e.g. euthanasia, world poverty, and the moral status of animals and the environment; as well as a guide to the rival theoretical approaches used to reflect upon these issues: consequentialism, Kantian ethics, virtue theories, and moral skepticism. The module will also address meta-ethical questions concerning the metaphysical and epistemological status of moral claims and judgements (are there moral facts? Is ethical knowledge obtainable?)				
Programme module type:	Distance Learning			
Anti-requisite(s):	PY1901, PY1101, PY1103, PY1105, PY1011			
Learning and teaching methods and delivery:	Weekly contact: Via Moodle - weekly 1-hour scheduled live tutorial chat.			
	Scheduled learning: 15 hours		Guided independent study: 185 hours	
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 totaling no more than 4,500 words			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	TBC			

Distance Learning Modules - 1000 & 2000 Level - 2016/7 - August 2016

PY1802 Reasoning and Knowledge (by Distance Learning)				
SCOTCAT Credits:	20	SCQF Level 7	Semester:	2
Academic year:	2016/7 & 2017/8			
Availability restrictions:	(subject to sufficient student demand) Non-graduating distance-learning students only			
Planned timetable:	No traditional classes: e-learning module.			
	What should we believe? How should we think? This module provides an introduction to informal modes of reasoning and to philosophical ideas about the differences between good and bad arguments. We will discuss induction and deduction, justification and knowledge, and will study elementary features of logic. The module is an essential foundation for further study in philosophy, and teaches critical and analytic skills central to many other disciplines.			
Programme module type:	Distance Learning			
Anti-requisite(s):	PY1006, PY2902, PY1012			
Learning and teaching methods and delivery:	Weekly contact: Via Moodle - weekly 1-hour scheduled live tutorial chat.			
	Scheduled learning: 15 hours		Guided independent study: 185 hours	
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/critical evaluation totaling no more than 4,500 words			
Module Co-ordinator:	Dr L Jones			

PY2801 Mind and Reality (by Distance Learning)				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	1
Academic year:	2016/7 & 2017/8			
Availability restrictions:	(subject to sufficient student demand) Non-graduating distance-learning students only.			
Planned timetable:	No traditional classes: e-learning module.			
	What am I, and what is reality? Am I part of the scientific, law-governed material world? If so, can I really act freely? How could a material thing be conscious? Am I the same person I was ten years ago? What, fundamentally, are material things and their properties? Can we understand the nature of space and time? Is the human mind capable of proving that God exists? This module will enable students to understand and begin to answer such fundamental metaphysical questions, and to gain valuable skills in reasoning and abstract thought.			
Programme module type:	Distance Learning			
Anti-requisite(s):	PY1005, PY2902, PY1010			
Learning and teaching methods and delivery:	Weekly contact: Via Moodle - weekly 1-hour scheduled live tutorial chat.			
	Scheduled learning: 15 hours		Guided independent study: 185 hours	
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 totaling no more than 6,000 words			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	TBC			

PY2802 Modern Philosophy: from Descartes to Kant (by Distance Learning)				
SCOTCAT Credits:	20	SCQF Level 8	Semester:	2
Academic year:	2016/7 & 2017/8			
Availability restrictions:	(subject to sufficient student demand) Non-graduating distance-learning students only.			
Planned timetable:	No traditional classes: e-learning module			
<p>For the purposes of this module, 'modern philosophy' means philosophy written in Europe from Descartes in the mid-seventeenth century to Kant at the end of the 18th century. This was an extraordinary period in the history of western thought, when a variety of brilliant thinkers devoted themselves to working out the philosophical implications of the 'new science'. This generated questions about the extent of human knowledge, about what can be known with certainty, about perception, and about how we acquire knowledge through the senses. There was also renewed interest in morality, its foundation, and its relation to human nature. This module will critically examine the arguments of major philosophers of the modern period, including Descartes, Locke, Berkeley, Hume and Kant.</p>				
Programme module type:	Distance Learning			
Anti-requisite(s):	PY2004, PY2901, PY1013			
Learning and teaching methods and delivery:	Weekly contact: Via Moodle - weekly 1-hour scheduled live tutorial chat.			
	Scheduled learning: 15 hours		Guided independent study: 185 hours	
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 totaling no more than 6,000 words			
Module Co-ordinator:	Dr L Jones			
Lecturer(s)/Tutor(s):	TBC			

Sustainable Aquaculture (Certificate)

BL1801 The Global Aquaculture Industry (by Distance Learning)				
SCOTCAT Credits:	10	SCQF Level 7	Semester:	BOTH
Academic year:	2016/7 & 2017/8			
Planned timetable:	To be arranged.			
The module will introduce the concept and definition of aquaculture and describe the global industry in the main production regions. The module will also consider the concept of sustainability; outlining the major environmental, social and economic factors involved. Major species produced will be defined and grouped in terms of bony fishes (teleosts), shrimp, shellfish, algae and other species. The main issues and challenges relating to the development of sustainability in aquaculture will be introduced and discussed.				
Programme module type:	Compulsory Module for Certificate in Sustainable Aquaculture			
Learning and teaching methods and delivery:	Weekly contact: 2-hour on-line lectures and 2-hour interactive on-line learning each week over 12 weeks.			
	Scheduled learning: 60 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews:			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr N Hazon			

BL2802 Fish and Invertebrate Biology (by Distance Learning)				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1 & 2 (taught twice)
Academic year:	2016/7 & 2017/8			
Planned timetable:	To be arranged.			
This module will address the essential aspects of fish and invertebrate biology including anatomy, physiology and environmental requirements. Subjects studied will include anatomy and physiology of the circulatory, respiratory, nervous, digestive sensory endocrine reproductive systems and life cycle of invertebrate and vertebrate aquaculture species. These parameters will be examined in the context of biological requirements and sustainable aquaculture; production methods and technology, effect of water quality, disease, nutrition and environmental impact.				
Programme module type:	Compulsory Module for Certificate in Sustainable Aquaculture			
Learning and teaching methods and delivery:	Weekly contact: 2-hour on-line lectures and 2 hour interactive on-line learning each week over 12 weeks.			
	Scheduled learning: 60 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews:			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr N Hazon			

Distance Learning Modules - 1000 & 2000 Level - 2016/7 - August 2016

BL2803 Aquaculture - Products and Markets (by Distance Learning)				
SCOTCAT Credits:	10	SCQF Level 8	Semester:	1 & 2 (taught twice)
Academic year:	2016/7 & 2017/8			
Planned timetable:	To be arranged.			
<p>This module provides an understanding of the diversity of species, value of markets and global trade of aquaculture products. The module will review the range of products for finfish and invertebrates. In particular the importance of value added and niche products will be examined in a variety of aquaculture products. The module will examine critically the different markets for aquaculture products; for example a comparison of subsistence farming in Malawi for local consumption with production of high value marine species for export in Brazil. For major aquaculture species such as salmon and shrimp the effects of the main market pressures on sustainable production such as use of medicines, food safety, quality and traceability will be discussed.</p>				
Programme module type:	Compulsory Module for Certificate in Sustainable Aquaculture			
Learning and teaching methods and delivery:	Weekly contact: 2-hour on-line lectures and 2-hour interactive on-line learning each week over 10 weeks.			
	Scheduled learning: 60 hours		Guided independent study: 40 hours	
Assessment pattern:	As defined by QAA: Written Examinations = %, Practical Examinations = %, Coursework = %			
	As used by St Andrews:			
Re-Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr N Hazon			

