School of Psychology & Neuroscience

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

Neuroscience (PN) Modules

PN3312 Pharmacology				
SCOTCAT Credits:	20	SCQF Level 9	**Semester:**	2
Planned timetable:	Lectures: 11.00 am Mon, Tue and Wed Practicals: to be arranged.			
This module assumes that students are familiar with the material covered in BL2101. The basic principles of pharmacology will be covered, including evidence to support the modern concept that drugs act via specific receptors present on target tissues and our present understanding of laws governing drug-receptor interactions. The concept of agonists, competitive and non-competitive antagonists and the interactions between such classes of drugs will be discussed. The effects of drugs upon the peripheral and central nervous systems and the cardiovascular system will be covered. How these drugs can be used to understand the function of these systems and to correct their malfunctioning in various disease states will be explained. The practical component will cover the principles of drug action and receptor theory and illustrate the use of bioassays in pharmacological investigations. These practical sessions aim to help students build a working knowledge of drug names and actions as well as pharmacological concepts.				
Programme module type:	Compulsory for Neuroscience. Optional for Biochemistry, Biomolecular Science, Molecular Biology, Cell Biology, Biologyand all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2101 or BL2104		**Anti-requisite(s):**	BL3312
Learning and teaching methods and delivery:	**Weekly contact**: Lectures and tutorials: 27 hours in total, Usually 3 lectures or tutorials (x 11 weeks) Practicals: 3 x 1-hour and 1 x 2-hours during the semester.			
	Scheduled learning: 32 hours		**Guided independent study:** 165 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr G Doherty			
Lecturer(s)/Tutor(s):	Dr A Butler, Dr G Doherty, Dr GB Miles, Dr G Prescott, Dr R Ramsay, Dr K Spencer, Dr P Kerry			

PN3313 Neuroscience

SCOTCAT Credits:	20	SCQF Level 9	**Semester:**	1
Planned timetable:	Lectures: 12.00 am Mon, Tue and Wed Practicals: to be arranged.			
This module covers biochemical, cellular and behavioural aspects of the nervous system in health and disease. It starts with the basic biochemistry of neural membrane proteins such as receptors and channels, and considers the cellular mechanisms of action potential generation and propagation, and synaptic transmission. The physiology of sensory perception is illustrated by examining the visual system, while motor control is considered in terms of vertebrate locomotion. Selected aspects of learning and memory processes are also examined. Students are given extensive hands-on experience of computer simulation as a learning tool in this course. The associated practical work illustrates the lecture course through experiments on the nerve impulse, and mechanisms of neuronal cell loss.				
Programme module type:	Compulsory for Neuroscience. Optional for Behavioural Biology, Cell Biology, Evolutionary Biology, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	BL2101		**Anti-requisite(s):**	BL3313
Required for:	PN4230, PN4231, BL4232, PN4234, PN4235			
Learning and teaching methods and delivery:	**Weekly contact**: 29 hours of lectures or tutorials in total, 2 x 3-hour practicals and 4 hours of labs during the semester.			
	Scheduled learning: 39 hours		**Guided independent study:** 161 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 3-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr G Miles			
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Prof K Sillar, Dr G Miles, Dr W Heitler, Dr W Li, Dr G Doherty			

PN4230 Neurodegeneration and Aging

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	To be arranged.			
In this module, students will develop a detailed understanding of molecular neuroscience. Work will focus at the biochemical and molecular level, so that detailed knowledge of signalling pathways will be gained.The module concentrates on three key areas relating to neurodegenerative processes. 1) How neurons stay alive 2) The aging nervous system: Changes that can 'prime' neurons for degeneration, degenerative disorders - risks, pathology, treatments. Including a practical session 3) How the nervous system responds to neurodegenerative diseases, with particular focus on Alzheimer's disease.				
Programme module type:	Optional for Biochemistry, Cell Biology, Molecular Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Anti-requisite(s):	BL4230			
Learning and teaching methods and delivery:	**Weekly contact**: Seminars: up to 2 hours per week (to a total of 18 hours) and 2 x 3-hour practicals during the semester.			
	Scheduled learning: 24 hours		**Guided independent study:** 126 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 66%, Practical Examinations = 0%, Coursework = 34%			
	As used by St Andrews: 2-hour Written Examination = 66%, Coursework = 34%			
Module Co-ordinator:	Dr G Doherty			
Lecturer(s)/Tutor(s):	Prof F Gunn-Moore, Dr G Doherty, Dr M Andrews			

PN4231 Neuromodulation

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	To be arranged.			
Until recently the nervous system was viewed as a black and white world in which neuronal networks carried out tasks using fast chemical synaptic transmission to produce an appropriate network output. However the output of neuronal networks is not fixed but instead is modifiable under different behavioural or developmental circumstances. A major source of flexibility in the output neuronal networks derives from neuromodulation; a process in which the basic operation of the networks remains the same but the strengths of synaptic connections and the integrative electrical properties of neurons in the networks are changed by the actions of a range of neuromodulators. This module explores the diverse range of neuromodulatory mechanisms and outlines their importance in information processing in the nervous system.				
Programme module type:	Optional for Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	PN3313		**Anti-requisite(s):**	BL4231
Learning and teaching methods and delivery:	**Weekly contact**: 2 seminars.			
	Scheduled learning: 24 hours		**Guided independent study:** 126 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 50%, Practical Examinations = 25%, Coursework = 25%			
	As used by St Andrews: 1-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr S Pulver			
Lecturer(s)/Tutor(s):	Dr S Pulver, Dr G Miles, Dr W Heitler			

PN4234 Synaptic Transmission

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	To be arranged.			
Extensive and versatile communication between nerve cells using special junctions called synapses endows the nervous system with many complex functions like learning and memory. This module will cover important recent progress in understanding the morphology and ultrastructure of synapses, neurotransmitter corelease and recycling mechanisms, retrograde signalling, synaptic plasticity, the role of glial cells and the development of neurotransmission. Some laboratory work will provide students with hands-on experience of advanced research methods.				
Programme module type:	Optional for Behavioural Biology, Cell Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	PN3313		**Anti-requisite(s):**	BL4234
Learning and teaching methods and delivery:	**Weekly contact**: A total of 6 x 1.5 hour seminars, 7 x 1 hour lectures and 2 x 3 hour practicals over 10 weeks			
	Scheduled learning: 22 hours		**Guided independent study:** 128 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 60%, Practical Examinations = 20%, Coursework = 20%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr W Li			
Lecturer(s)/Tutor(s):	Dr W Li, Prof K Sillar, Dr G Miles			

PN4235 Motoneurons: From Physiology to Pathology

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Availability restrictions:	BSc Hons Neuroscience students have priority on this module			
Planned timetable:	To be arranged.			
This module aims to provide in depth knowledge of key aspects of neuronal function and potential dysfunction by focussing on one of the most studied and best characterised classes of neurons in the central nervous system, motoneurons. The module will cover topics such as: the history of motoneurons in neuroscience research; the genetics controlling motoneuron development, the intrinsic electrical properties of motoneurons; synaptic inputs received by motoneurons; motoneuron recruitment; and motoneuron disease.				
Programme module type:	Optional for Behavioural Biology, Cell Biology, Biology, Neuroscience, Zoology and all Biology Joint or Major/Minor Degree programmes.			
Pre-requisite(s):	PN3313		**Anti-requisite(s):**	BL4235
Learning and teaching methods and delivery:	**Weekly contact**: 10 hours of seminars, 6 hours of lectures and 6 hours of practical over the semester.			
	Scheduled learning: 22 hours		**Guided independent study:** 128 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr G Miles			
Lecturer(s)/Tutor(s):	Dr W Li, Prof K Sillar, Dr G Miles, Dr W Heitler			

PN4299 Neuroscience Research Project

SCOTCAT Credits:	60	SCQF Level 10	**Semester:**	Whole Year
Planned timetable:	To be arranged with the supervisor.			
This project will involve extensive laboratory or field research to investigate a defined problem broadly within biology, psychology, or neuroscience appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Psychology and Neuroscience or the School of Biology who will guide and advise them in research activities throughout the academic year.				
Programme module type:	PN4299 or BL4200 is compulsory for Neuroscience.			
Anti-requisite(s):	BL4200, BL4201, PS4050			
Learning and teaching methods and delivery:	**Weekly contact**: Meetings with supervisor			
	Scheduled learning: 33 hours		**Guided independent study:** 567 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr G H Doherty			
Lecturer(s)/Tutor(s):	Individual Supervisors across the School of Psychology and Neuroscience or the School of Biology			

Psychology (PS) modules

PS3021 Research Design and Analysis 1				
SCOTCAT Credits:	15	SCQF Level 9	**Semester:**	1
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	9.00 am - 11.00 am / 2:00 - 5:00 pm Mon			
This module is designed to provide a basic understanding of research design and statistics that will provide the foundations for independent empirical research and critical analysis required in the final year of the Honours programme. Emphasis will be placed on the acquisition of design and analysis skills and an understanding of the underlying philosophy that guides research. The syllabus will include core aspects such as ethical issues in research, basic statistics, technical writing and the use of statistical packages.				
Programme module type:	Compulsory for Single and Joint Honours Psychology degrees with BPS recognition, Psychology with Biology, Psychology with Film Studies. Compulsory for BPS Recognition. Optional for Joint Honours Psychology without BPS recognition.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or permission of the Psychology Honours Adviser			
Required for:	PS3022			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1.5-hour laboratory/tutorial class or seminar.			
	Scheduled learning: 39 hours		**Guided independent study:** 111 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Module Co-ordinator:	Dr M W Oram			
Lecturer(s)/Tutor(s):	Dr M W Oram, Dr J Ales			

PS3022 Research Design and Analysis 2

SCOTCAT Credits:	15	SCQF Level 9	**Semester:**	2
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	9.00 am - 11.00 am / 2:00 - 5:00 pm Mon			
This module is designed to provide a more advanced understanding of research design and statistics. Emphasis will be placed on the acquisition of analytical skills covering typical research situations encountered in the behavioural sciences. The syllabus will include advanced analysis of variance, multivariate statistics and non-parametric statistics, as well as training in computerised data analysis and presentation.				
Programme module type:	Compulsory for Single and Joint Honours Psychology degrees with BPS recognition, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory for BPS Recognition. Optional for Joint Honours Psychology without BPS recognition.			
Pre-requisite(s):	PS3021, Grades of 11 or better in PS2001 and PS2002 or permission of the Psychology Honours Adviser			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1.5-hour laboratory/tutorial class or seminar.			
	Scheduled learning: 39 hours		**Guided independent study:** 111 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr K Mavor			
Lecturer(s)/Tutor(s):	Dr K Mavor, P Gardner, R Spence			

PS3031 Conceptual Issues and Theoretical Perspectives

SCOTCAT Credits:	10	SCQF Level 9	**Semester:**	1
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (Weeks 1-5)			
This module addresses the historical and philosophical background to current debates in psychology. The module will be taught via lectures and seminars including student presentations. Emphasis will be placed on the development of critical analysis of alternative models and levels of explanations of behaviour, and the ability to relate conceptual debates in psychology to issues in the real world.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory module for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5).			
	Scheduled learning: 15 hours		**Guided independent study:** 85 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Mr P L Gardner			
Lecturer(s)/Tutor(s):	Mr P L Gardner			

PS3032 Assessment in Clinical Psychology

SCOTCAT Credits:	10	SCQF Level 9	**Semester:**	2
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (Weeks 7 - 11).			
This module presents psychopathological conditions and provides a basic understanding of the underlying neuronal and/or cognitive-behavioural mechanisms. Examples will be drawn from the field of clinical psychology and/or clinical neuropsychology. The module will further explore in detail the tools and procedures used to assess psychopathological conditions by discussing their theoretical/statistical background and by demonstrating how to use these tools in clinical and experimental settings.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory module for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 7 - 11).			
	Scheduled learning: 15 hours		**Guided independent study:** 85 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 1.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr D Balslev			
Lecturer(s)/Tutor(s):	Dr D Balslev			

PS3033 Developmental Psychology

SCOTCAT Credits:	10	SCQF Level 9	**Semester:**	2
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (Weeks 1 - 5)			
This module is designed to equip students with an appreciation of key principles, concepts, methods and discoveries in developmental psychology, with an emphasis on evolutionary and comparative perspectives that are a particular strength of such work in St Andrews. The module aims to offer a broad perspective spanning infancy to childhood, and a range of key topics in cognitive and social development.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory module for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002		**Anti-requisite(s):**	PS3010 and PS3011
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1.5-hour laboratory class or seminar (Weeks 1 - 5).			
	Scheduled learning: 18 hours		**Guided independent study:** 82 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr A Seed			
Lecturer(s)/Tutor(s):	Dr A Seed			

PS3034 Social Psychology

SCOTCAT Credits:	10	SCQF Level 9	**Semester:**	2
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (Weeks 1 - 5)			
This module explores in depth key topics across the breadth of social psychological enquiry. A variety of research approaches will be examined in order to develop the scientific understanding and critical skills in this field. Approaches that will be covered include social cognition, social identity and the study of intergroup relations. In each case, the strengths and limitations of the approaches are explored, and theoretical knowledge will be linked to current events.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory module for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5)			
	Scheduled learning: 15 hours		**Guided independent study:** 85 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr N Tausch			
Lecturer(s)/Tutor(s):	Dr N Tausch			

PS3035 Cognitive and Behavioural Neuroscience

SCOTCAT Credits:	10	SCQF Level 9	**Semester:**	1
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (Weeks 1 - 5).			
This module aims to provide an understanding of psychological knowledge in several inter-related domains concerned with the biological bases of behaviour. Emphasis will be laid on basic experimental science from analysis of molecular and synaptic events, single cell studies, brain activity scans, and clinical studies, and the relationship between cognitive, emotional, behavioural, neurological and physiological processes will be examined.				
Programme module type:	Compulsory for Neuroscience, Single Honours Psychology. Either PS3035 or PS3036 is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1.5-hour laboratory class or seminar (Weeks 1 - 5)			
	Scheduled learning: 18 hours		**Guided independent study:** 82 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 1.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr I Jentzsch			
Lecturer(s)/Tutor(s):	Dr I Jentzsch			

PS3036 Evolutionary and Comparative Psychology

SCOTCAT Credits:	10	SCQF Level 9	**Semester:**	2
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (Weeks 7 - 11)			
This module will address evolutionary and comparative approaches to psychology. The aim is to provide an understanding of major evolutionary forces and how they have shaped animal and human behaviour and psychology. Key principles, concepts and methodologies will be introduced and related to specific topic areas such as the evolution of social behaviour and the evolutionary origins of language and cognition.				
Programme module type:	Compulsory for Single and Joint Honours Psychology. Either PS3035 or PS3036 is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1.5-hour laboratory class or seminar (Weeks 7 - 11).			
	Scheduled learning: 18 hours		**Guided independent study:** 82 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 1.5-hour Written Examination = 100%			
Module Co-ordinator:	Dr C Hobaiter			
Lecturer(s)/Tutor(s):	Dr C Hobaiter			

PS3037 Perception

SCOTCAT Credits:	10	SCQF Level 9	**Semester:**	1
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (Weeks 7 - 11).			
The aim of this module is to develop an understanding of visual perception and its functions. Stress will be laid on the integration of findings from physiology, neuropsychology, anatomy, and psychophysics. Topic areas covered will include theories of human vision and their application to understanding our ability to perceive distinct visual properties, for example the shape, size, location and identity of objects. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory.				
Programme module type:	Compulsory for Neuroscience, Single Honours Psychology. Either PS3037 or PS3038 (normally PS3038) is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 1.5-hour laboratory class or seminar (Weeks 7 - 11).			
	Scheduled learning: 18 hours		**Guided independent study:** 82 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%			
	As used by St Andrews: 1.5-hour Written Examination = 100%			
Module Co-ordinator:	Prof J Harris			
Lecturer(s)/Tutor(s):	Prof J Harris			

PS3038 Cognition

SCOTCAT Credits:	10	SCQF Level 9	**Semester:**	1
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (Weeks 7 - 11).			
The aim of this module is to develop an understanding of human cognitive processes. Topic areas covered include, for example, attention, memory, reasoning, and decision making. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory. Lectures will be accompanied by practical classes, in which students will gain experience of the experimental methods used in cognitive research, and seminars in which research papers will be critically evaluated..				
Programme module type:	Compulsory for Neuroscience, Single Honours Psychology. Either PS3037 or PS3038 (normally PS3038) is a compulsory for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography and for BPS Recognition.			
Pre-requisite(s):	PS2001 and PS2002			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 2-hour lecture and 1 x 31-hour laboratory class or seminar (Weeks 7 - 11).			
	Scheduled learning: 15 hours		**Guided independent study:** 85 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr T Otto			
Lecturer(s)/Tutor(s):	Dr T Otto			

PS4040 Psychology Review

SCOTCAT Credits:	10	SCQF Level 10	**Semester:**	Whole Year
Availability restrictions:	Available only to students in a Psychology Honours Programme.			
Planned timetable:	Not applicable.			
This module will foster the abilities needed to search, collate and integrate an extensive area of psychological literature. Emphasis will be placed on analytical and methodological issues, and this module therefore complements PS3021 and PS3022. A systematic approach to the analysis of a specific body of literature will be encouraged. Students are invited to identify preferred subject matters so long as they fall within the area of the supervisor's expertise. Supervision will be given to aid students in the collation, planning and organisational phases of their work. The review will be limited to 4,000 words.				
Programme module type:	Compulsory for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography. Compulsory for BPS Recognition.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Co-requisite(s):	PS3021 and PS3022. This module is normally completed in the first year of the Honours Programme.			
Learning and teaching methods and delivery:	**Weekly contact**: Individual supervision by pre-assigned member of staff.			
	Scheduled learning: 10 hours		**Guided independent study:** 90 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Review = 100%			
Module Co-ordinator:	Dr R Sprengelmeyer			
Lecturer(s)/Tutor(s):	Dr R Sprengelmeyer			

PS4050 Psychology Project (30)

SCOTCAT Credits:	30	SCQF Level 10	**Semester:**	Whole Year
Planned timetable:	Not applicable.			
The aim of the project is to develop and foster the skills of experimental design, appropriate research management and statistical analysis. A wide choice of topics is possible, but the skills developed in modules PS3021, PS3022 and PS4040 are an essential preparation. The empirical part of the project may be conducted with another student, to allow greater research scope and the choice of more realistic problems, but all analysis and report-writing must be carried out individually. Topics range over all areas of psychology under active investigation in the School, and effort is made to arrange for students to work in one of their preferred areas.				
Programme module type:	Compulsory for Single and Joint Honours Psychology with BPS recognition. BL4200 or BL4201 or PS4050 are compulsory for Neuroscience. BL4200 or PS4050 is compulsory for Psychology with Biology. Compulsory for BPS Recognition.			
Pre-requisite(s):	PS4040, PS3021 and PS3022. Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Anti-requisite(s):	PN4299, PS4299			
Learning and teaching methods and delivery:	**Weekly contact**: Individual supervision by pre-assigned member of staff			
	Scheduled learning: 30 hours		**Guided independent study:** 270 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Dissertation = 100%			
Module Co-ordinator:	Dr R Sprengelmeyer			
Lecturer(s)/Tutor(s):	Dr R Sprengelmeyer			

PS4060 The Impact of Psychological Research Review

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	To be arranged.			
In this module students will select a key psychological research paper to review (subject to approval by module controller). Students will then submit an outline for formative feedback. The review will be composed independently thereafter. The review should include historical antecedents, including theoretical and methodological issues related to the area and specific problem of issue that the paper addresses. The review should also include an evidence-based evaluation of the impact of the key paper on psychological science and on society. The module includes 6 one-hour sessions on practical skills required to complete the review.				
Programme module type:	Compulsory for Single Honours Psychology. Optional for Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience..			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Anti-requisite(s):	BL4200			
Learning and teaching methods and delivery:	**Weekly contact**: 3 x 2-hour workshops in Semester 1			
	Scheduled learning: 6 hours		**Guided independent study:** 144 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Essay = 100%			
Module Co-ordinator:	Dr E M Bowman			
Lecturer(s)/Tutor(s):	TBC			

PS4065 Vision: from Neurons to Awareness

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Planned timetable:	9.00 am - 11.00 am Fri			

The aim of the module is to develop an advanced understanding of the psychological processes involved in visual perception. The module will illustrate how a full understanding of perception requires scientific study at a number of levels, from the whole human, moving apparently effortlessly through our complex and sometimes dangerous environment, through neuropsychological studies exploring what happens when selective damage occurs, to the functioning of the individual neurons that underlie our ability to perceive an apparently continuous, colourful, three-dimensional world.

The module will cover selected topics that illustrate the extraordinary range of problems our perceptual systems solve in the real world, including: active vision (how do our visual systems allow us to function fast enough to drive a car, play fast-action sports), three-dimensional vision (why and how do we perceive the world as three-dimensional), material perception (how do we perceive things as dirty, smooth, shiny, patterned), visual consciousness (is perception necessarily conscious, and is it possible to explore consciousness scientifically?).

Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.	
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology	
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour seminars plus office hour.	
	Scheduled learning: 33 hours	**Guided independent study:** 117 hours
Assessment pattern:	**As defined by QAA:** Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%	
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%	
Module Co-ordinator:	Prof J Harris	
Lecturer(s)/Tutor(s):	Prof J Harris	

PS4071 Behavioural Neuroscience

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	11.00 am - 1.00 pm Thu			
The overall aim of this module is to allow students access to current research in the area of behavioural neuroscience. Possible topics include motivation, learning and attention. Past themes explored in the module include: the relationship between 'normal' learning and addiction; the transition from goal-directed action to stimulus-response habit; the neural basis of compulsive gambling; the efficacy of biological treatments of addiction; and the behavioural and neural effects of MDMA ('ecstasy'). Results from both human and animal research will be considered in parallel, with examples of papers ranging from molecular neuroscience to neuropsychology.The format of the module will include lectures (which are designed to provide the students with the background necessary to read research articles); guided seminars and student presentations summarising research articles. In order to maximise the benefits of the students' presentations, each student will meet with the lecturer at least twice to discuss the topic and content of their talk.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour seminars plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr E M Bowman			
Lecturer(s)/Tutor(s):	Dr E M Bowman			

PS4074 Cognitive Psychology and the Emotional Disorders

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.00 am - 11.00 am Mon			
This module is designed to demonstrate how theories from cognitive psychology can enhance our understanding of the emotional disorders Teaching will be based on individual seminar presentations followed by class discussion. In the presentations students will be expected to review and critically evaluate original research. Seminars will focus on topics such as autobiographical memory and depression, autobiographical memory and anxiety, attentional bias in depression and anxiety, and interpretative biases in depression and anxiety. At the end of the seminar series, students should understand how depression and anxiety can be differentiated on the basis of these biases.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour seminars plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr B Dritschel			
Lecturer(s)/Tutor(s):	Dr B Dritschel			

PS4083 Psychology of Music

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	11.00 am - 1.00 pm Mon			
The aim of the module is to introduce students to psychological processes underlying music perception, cognition, and performance. The relationship between musical phenomena and mental functions will be illustrated. The module will cover different aspects of music perception including psychoacoustics and sound perception, music cognition including music memory emotion and expectancies, skilled performance as well as abnormalities in music perception and performance. The module will be taught in the form of seminars including student presentations. Emphasis will be placed on the development of critical thinking and the ability to relate conceptual debates in psychology to issues in the real world.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour seminars plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr I Jentzsch			
Lecturer(s)/Tutor(s):	Dr I Jentzsch			

PS4084 Psychology of Art: Aesthetics and individual differences in visual function

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.00 am - 11.00 am Mon			
This module examines the psychology of artistic activity and aesthetic appreciation, both from the standpoint of the artistic object (e.g., painting), as well as the individual who creates or appreciates art. Why are some things more aesthetically pleasing than others? Why do some people have a greater capacity to create aesthetic things? The module will explore the links between aesthetic creation and appreciation on the one hand and perceptual and cognitive processes on the other. These links will be examined from behavioural and neurological viewpoints. A significant emphasis will be on the neurological conditions that heighten differences in the capacity to create and appreciate aesthetic objects, including mental disorders (e.g., frontotemporal dementia, autism, epilepsy) and atypical cognitive development (e.g., synaesthesia, dyslexia). This will be a critical seminar style module with readings and discussions.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour seminars plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D Vishwanath			
Lecturer(s)/Tutor(s):	Dr D Vishwanath			

PS4085 Evolution and Development of Social and Technical Intelligence

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Availability restrictions:	Available only to undergraduate students in the second year of the Honours Programme. Also available to postgraduate students on M.Sc. Evolutionary and Comaparative Psychology: the Origins of Mind			
Planned timetable:	11.00 am - 1.00 pm Fri			
The last two decades have witnessed a surge of research on social and technical intelligence, both in humans and an increasingly wide range of non-human animal species. This module surveys the principal discoveries, integrating field and captive studies, as well as both observational and experimental methodologies, to trace the evolution and development of aspects of social intelligence such as imitation and theory of mind, and technical intelligence, such as tool use and understanding of causality. Key aims include appreciating the range of methodologies that have been developed and how these can be used to trace the evolution and ontogeny of the underlying psychological mechanisms.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour seminars plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr C Cross			
Lecturer(s)/Tutor(s):	Dr C Cross			

PS4086 Origins and Evolution of Mind Reading (Theory of Mind)

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Availability restrictions:	Available only to undergraduate students in the second year of the Honours Programme. Also available to postgraduate students on M.Sc. in Evolutionary and Comparative Pyschology: the Origins of Mind			
Planned timetable:	11.00 am - 1.00 pm Tue			
The module will offer a comparative approach to the emergence of the ability to understand mental states in children and non-human primates, and its alteration in autism. This ability (also known as Theory of Mind) is at the heart of many of humans unique cognitive achievements, but their origins can be traced back in evolution and development. The course will discuss the current state of research in this area, emphasising both empirical and conceptual aspects posed by the combination of the evolutionary and developmental approaches.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour seminars plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%			
Module Co-ordinator:	Dr J-C Gomez			
Lecturer(s)/Tutor(s):	Dr J-C Gomez			

PS4089 Neural Basis of Episodic Memory

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Planned timetable:	11.00 am - 1.00 pm Tue			
This module will examine how the brain enables us to remember information from our personal experience. It will present students with cutting edge research using both humans and animals that gives us an insight into how the psychological components of episodic memory can be represented and processed by the brain. We will go on to look at how this type of research is applied in fields such as future thinking and memory decline in dementia. The course will include lectures and student presentations based around current research articles in the field.				
Programme module type:	Optional for Single and Joint Honours Psychology, and Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour seminars plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr J A Ainge			
Lecturer(s)/Tutor(s):	Dr J A Ainge			

PS4090 Face Perception and Human Attraction

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Academic year:	2014/5			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9.00 am - 11.00 am Wed			
This advanced-level module will focus on face perception. The aim is to provide understanding of the development and evolutionary basis of driving forces behind human relationships and knowledge of the biological basis and psychological manifestations of these influences. Topics include: the neural basis of face attraction; development of face preferences; hormone influences on preferences and competition; sexual selection, kin selection; facial cues to health and social behaviour. Teaching will be based on the origin of individual differences, and the interaction between experience and biological factors in shaping human mate choice.				
Programme module type:	Optional for Single and Joint Honours Psychology, and Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 0.5-hour lectures, 1.5-hour seminars and 1-hour office hour throughout the semester.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Prof D Perrett			

PS4091 Computer-aided Research

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Availability restrictions:	Available only to students in the second year of the Honours Programme, or the M.Res. in Psychology.			
Planned timetable:	9.00 am - 11.00 am Tue			
As research becomes ever more computationally intense, the ability to use modern research software is becoming indispensable. This practical module will offer an introduction to computational modelling and provide you with the skills necessary to apply it in your research. Emphasis will be put on using scientific scripting languages in a research context. This module will build on the statistical techniques learned in previous modules and introduce modelling techniques, and imaging, stimulus presentation, and data visualisation.				
Programme module type:	Optional for Single and Joint Honours Psychology, and Neuroscience.			
Pre-requisite(s):	PS3021, PS3022 - Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 1 lecture and 1 seminar plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr D W Hunter			
Lecturer(s)/Tutor(s):	Dr D W Hunter			

PS4092 The Evolutionary Psychology of Religion and Belief

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Planned timetable:	11.00 am - 1.00 pm Fri			
This module allows students to enhance their understanding of how evolution has shaped human psychology through the intriguing question of how religions emerged and persist. It explores the application of the theoretical framework of evolutionary psychology to this question through topics such as religion and emotion; the ascription of agency and causation; cooperation and social cohesion; the evolution of morality; religious practices as costly signals; the effect of religion on psychological and physical wellbeing. Teaching is based on lectures introducing each subtopic and student-led seminars emphasizing both conceptual and empirical aspects of this newly emerging field of study.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 1 x 1-hour lecture, 1 x 1-hour seminar, plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr K Arnold			
Lecturer(s)/Tutor(s):	Dr K Arnold			

PS4093 The Psychology of Dementia

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	1
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	11.00 am - 1.00 pm Wed			
This module will examine the psychology of dementia focusing on the cognitive and psychosocial impact on individuals with a diagnosis and those who care for them. Students will examine patterns of both lost and retained cognitive skills in people with dementia. We will then focus on how retained skills can be maximised and how the caregiving experience can be improved for both people living with dementia and their caregivers. The module will include lectures and student presentations based around current research articles in the field.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 1 lecture, 1 seminar plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr M Ellis			
Lecturer(s)/Tutor(s):	Dr M Ellis			

PS4094 Communicating Psychology and Neuroscience

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	11.00 am - 1.00 pm Mon			
This module provides final year students within the School of Psychology and Neuroscience with first-hand experience of science communication through a series of expert led master-classes (e.g. Bright Club, BBC, print journalists, science bloggers), presentations and interaction with new media (e.g. podcasts, blogs, Twitter, FaceBook). This module will enable students to gain substantial experience of working to tight deadlines, evaluating how the media translates psychological/neuroscience findings and of communicating complex ideas at various different levels, including presenting work to the press, the public and school children. Topics covered may include: why scientists must communicate with the public; how psychology/neuroscience hits the headlines; evaluating media coverage; using new media to get the message across and designing a science exhibit. While of particular value to students aiming for a career in public engagement, these core skills are equally important for any career that requires good communication, including post-graduate study. In addition, students will be required to monitor relevant periodicals and evaluate several new studies in psychology/neuroscience and so should expose students to the latest trends within the field. Entry to this module is by selection following application and interview.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	PS3021 or PN3313	**Anti-requisite(s):**	ID4001 and ID4002	
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour lecture, plus office hour and occasional fieldwork.			
	Scheduled learning: 42 hours		**Guided independent study:** 108 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr K Spencer			
Lecturer(s)/Tutor(s):	Dr K Spencer, Mr P L Gardner			

PS4095 Psychopathology

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	11.00 am - 1.00 pm Wed			
This module aims to describe mental disorders from a psychodynamic, behavioural, cognitive, and neuropsychiatric perspective. Classification systems of mental disorders are compared and evaluated, and research methods and treatment strategies critically discussed. The clinical part of the module focuses on adult mental health (e.g., Mood disorders, Schizophrenia Spectrum disorders, Obsessive compulsive disorders, Trauma and Stress related disorders) and Developmental Psychopathology (e.g., Autism Spectrum disorders).				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour lecture plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr R Sprengelmeyer			
Lecturer(s)/Tutor(s):	Dr R Sprengelmeyer			

PS4096 Mechanisms of Behaviour: Integrating Psychological and Neuroscience Perspectives

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	9.00 am - 11.00 am Thu			
The aim of this module is to explore some of the many physiological and neural systems that modulate patterns of behaviour in a range of species, including humans. It will highlight the importance of integrating information from psychology and neuroscience disciplines in order to further our understanding of how and why animals and humans behave the way they do in different situations. The module will deal with examples of mechanisms across different levels of complexity (from genes to physiology). The module will include lectures and student presentations/journal club discussions based around current research articles in the field and a practical session with hands on experience of a physiological technique.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour lecture (x 10 weeks), 1 practical class (x 4 weeks) plus office hour.			
	Scheduled learning: 35 hours		**Guided independent study:** 115 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr K Spencer			
Lecturer(s)/Tutor(s):	Dr K Spencer			

PS4100 The Psychology of Terrorism (PENDING APPROVAL)

SCOTCAT Credits:	15	SCQF Level 10	**Semester:**	2
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	11.00 am - 1.00 pm Thu			
This module presents the psychological underpinnings of terrorist behaviour from a variety of perspectives. The course will assess individual- and group-/structural-level explanations of terrorism, discuss the strategic logic and moral justification of terrorism, and cover some of the psychological processes involved in the radicalisation of individuals and the operation of terrorist groups. The final part of the module will examine the effects of terrorism on constituencies and target groups and the implications of psychological insights for counter-terrorism measures.				
Programme module type:	Optional for Single and Joint Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Learning and teaching methods and delivery:	**Weekly contact**: 2-hour lecture plus office hour.			
	Scheduled learning: 33 hours		**Guided independent study:** 117 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Module Co-ordinator:	Dr N Tausch			
Lecturer(s)/Tutor(s):	Dr N Tausch			

PS4299 Psychology Project (60)

SCOTCAT Credits:	60	SCQF Level 10	**Semester:**	Whole Year
Availability restrictions:	Available only to students in the second year of the Honours programme			
Planned timetable:	To be arranged.			
This project will involve extensive laboratory or field research to investigate a defined problem broadly within psychology. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Psychology and Neuroscience who will guide and advise them in research activities throughout the academic year.				
Programme module type:	Optional for Single Honours Psychology, Psychology with Biology, Psychology with Film Studies, Psychology with Geography, Neuroscience.			
Pre-requisite(s):	PS3021, PS3022 and PS4040. Grades of 11 or better in PS2001 and PS2002 or entry into Honours Psychology			
Anti-requisite(s):	PS4050, PS4060, PN4299			
Learning and teaching methods and delivery:	**Weekly contact**: 1-hour individual supervision sessions.			
	Scheduled learning: 22 hours		**Guided independent study:** 580 hours	
Assessment pattern:	**As defined by QAA:** Written Examinations = 0%, Practical Examinations = 35%, Coursework = 65%			
	As used by St Andrews: Coursework = 100%			
Module Co-ordinator:	Dr R Sprengelmeyer			
Lecturer(s)/Tutor(s):	various			