PN3312 Neuropharmacology SCOTCAT Credits: 20 SCQF level 9 Semester 2 Academic year: 2020-2021 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 the second year pre-requisite modules. 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 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.

Pre-requisite(s):	Before taking this module you must pass at least 2 modules from {BL2301, BL2302, BL2305, BL2306}		
Anti-requisite(s)	You cannot take this module if you take BL	3312	
Learning and teaching methods of delivery:	Weekly contact : Lectures and tutorials: 27 hours in total, Usually 3 lectures or tutorials (x 11 weeks) Practicals: 2 x 3 hours during the semester.		
inethous of delivery.	Scheduled learning: 33 hours	Guided independent study: 167 hours	
Accessment nattern	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%		
Assessment pattern:	As used by St Andrews: 3-hour Written Examination = 60%, Course	ework = 40%	
Re-assessment pattern:	3-hour Written Examination = 100%		
Module teaching staff:	Prof A Butler, Dr G Doherty, Dr W Li, Prof G	B Miles, Prof KT Sillar, Dr M Zwart	

PN3313 Neuroscience SCOTCAT Credits: 20 SCQF level 9 Semester 1 Academic year: 2020-2021 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 understanding of neuronal survival and loss, followed by 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 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, optogenetics and mechanisms of neuronal cell loss.

Pre-requisite(s):	Before taking this module you must pass BL2301 and pass BL2305			
Anti-requisite(s)	You cannot take this module if you take BL3313			
Learning and teaching methods of delivery:	Weekly contact : 29 hours of lectures or tutorials in total, 3 x 3-hour practicals and 4 hours of computer simulation labs during the semester.			
methous of delivery.	Scheduled learning: 42 hours	Guided independent study: 158 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: Continual assessment 40% (15% lab report 1 and 25% lab report 2) and 2hr Exam 60%			
Re-assessment pattern:	2hr written exam = 100%			
Module coordinator:	Dr W Li			
Module coordinator Email:	wl21@st-andrews.ac.uk			
Module teaching staff:	Prof K Sillar, Dr S Pulver, Prof G Miles, Dr W	V Heitler, Dr W Li, Dr G Doherty, Dr A Smith		

PN3322 From data to insight in the behavioural and neural sciences SCOTCAT Credits: 10 SCQF level 9 Semester 1 Academic year: 2020-2021 Availability restrictions: Enrollment is limited to BSc Neuroscience students Planned timetable: To be arranged

This module aims to introduce students to an increasingly important aspect of the scientific process in psychology and neuroscience: data analysis and visualisation. Weekly lectures delivered by a different member of staff drawn from various subdisciplines of the biological/behavioural sciences will highlight the variety and complexity of different data types and how insights from these data can be visualised and communicated effectively. Students will self-direct their learning and work to analyse datasets provided by members of staff, and create scientific figures for assessment. Throughout, students will learn to critically evaluate primary research articles. At the end of the module, a one-day conference will be held in which students give oral presentations on new advances in the field.

Pre-requisite(s):	Honours entry to BSc Neuroscience			
Learning and teaching methods of delivery:	Weekly contact : Week 1: -1-hour introductory meeting with teaching staff, Weeks 2- 11: -6 x 1-hour lectures -6 x 1-hour tutorials -2 hours devoted to critical analysis of primary research -1 full day (5 hours) of oral presentations as part of research festival			
	Scheduled learning: 20 hours Guided independent study: 80 hours			
	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
Assessment pattern:	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr M F Zwart			
Module teaching staff:	Dr Maarten Zwart, Dr Erin Robbins, Dr Ste	fan Pulver		

	the nervous s	ystem			
SCOTCAT Credits:	15	SCQF level 10	Semester	2	
Academic year:	2020-2021		•		
Availability restrictions:		uroscience students have p the size of the teaching lab		• • •	
Planned timetable:	tbc				
of the events underpinni to maladaptive processe	ng nervous sys es including bu t the empirical	vill focus at the cellular and stem diseases and disorder ut not limited to age-rela models that are used to	rs. The module concent ted change and neuro	rates on key areas relating degeneration. In addition	
Pre-requisite(s):	Before taking	Before taking this module you must pass PN3313 and pass BL3303			
Anti-requisite(s)	You cannot ta	You cannot take this module if you take BL4230			
	Weekly contact: 2-hr Seminars (9 weeks), 6-hr Practicals (1 week)				
Learning and teaching	weekiy conta	act: 2-hr Seminars (9 week	s), 6-hr Practicals (1 we	eek)	
•		act: 2-hr Seminars (9 week arning: 24 hours		eek) ent study: 126 hours	
methods of delivery:	Scheduled lea	arning: 24 hours	Guided independe	ent study: 126 hours	
methods of delivery:	Scheduled lead As defined by Written Exan As used by St	arning: 24 hours y QAA: ninations = 70%, Practical	Guided independ Examinations = 0%, Cou	ent study: 126 hours ursework = 30%	
methods of delivery: Assessment pattern:	As defined by Written Exan As used by St Continual ass	arning: 24 hours y QAA: ninations = 70%, Practical t Andrews:	Guided independ Examinations = 0%, Cou	ent study: 126 hours ursework = 30%	
Learning and teaching methods of delivery: Assessment pattern: Re-assessment pattern: Module coordinator:	As defined by Written Exan As used by St Continual ass	arning: 24 hours y QAA: ninations = 70%, Practical t Andrews: essment 30% (10% comme	Guided independ Examinations = 0%, Cou	ent study: 126 hours ursework = 30%	

PN4231 Neuromodulation SCOTCAT Credits: 15 SCQF level 10 Semester 2 Academic year: 2020-2021 Availability restrictions: BSc Hons Neuroscience students have priority on this module Planned timetable: Lectures: 11.00 am - 12.00 noon Tue and 10.00 am - 11.00 am Fri. Practicals to be arranged.

Until recently the nervous system was viewed as a black and white world in which neuronal networks carried out tasks using fast chemical synaptic transmission to produce an appropriate network output. However the output of neuronal networks is not fixed but instead is modifiable under different behavioural or developmental circumstances. A major source of flexibility in the output neuronal networks derives from neuromodulation; a process in which the basic operation of the networks remains the same but the strengths of synaptic connections and the integrative electrical properties of neurons in the networks are changed by the actions of a range of neuromodulators. This module explores the diverse range of neuromodulatory mechanisms and outlines their importance in information processing in the nervous system.

Pre-requisite(s):	Before taking this module you must pass PN3313		
Anti-requisite(s)	You cannot take this module if you take BL4231		
Learning and teaching	Weekly contact: 2 seminars.		
methods of delivery:	Scheduled learning: 24 hours	Guided independent study: 126 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%		
	As used by St Andrews: Continual assessment 30% (poster and viva) and 2hr Exam 70%		
Re-assessment pattern:	2hr written exam = 100%		
Module coordinator:	Dr S R Pulver		
Module coordinator Email:	sp96@st-andrews.ac.uk		
Module teaching staff:	Dr S Pulver, Prof K Sillar, Prof G Miles, Dr W	V Li, Dr W Heitler	

PN4232 Neuroethology SCOTCAT Credits: 15 SCQF level 10 Semester 1 Academic year: 2020-2021 Availability restrictions: BSc Hons Neuroscience students have priority on this module Planned timetable: Lectures: Week(s) 1- 5 & 7, 10 & 11 Fri 2-4pm. Practical 1 Week 2 Thu 11-1pm. Practical 2 Week 8 Thu 2-5pm. Practical 3 Week 9 Fri 2-5pm

Predators and their prey are locked in an evolutionary arms race which continuously refines and improves the abilities of predators to locate and capture prey and of prey to detect and evade predators. The resulting selective pressure has produced spectacular adaptations in both the nervous systems and the anatomy of the animals concerned. This, combined with the usually unambiguous motivation of the animals involved in predator-prey interactions (eat or starve, escape or be eaten) has made such adaptations favoured targets for study by neuroscientists, behavioural scientists and bio-mechanicists. Students on this course will undertake a sense of guided case studies researching the primary literature, and the course will also include some hands-on laboratory demonstrations. The aim Is both to uncover some general principles of neural and biomechanical organisation, and also to reveal the variety and ingenuity with which evolution has found different solutions to shared problem

Pre-requisite(s):	Before taking this module you must pass BL2101		
Learning and teaching	Weekly contact: Up to six hours of one-to-one or small group tuition.		
methods of delivery:	Scheduled learning: 39 hours	Guided independent study: 110 hours	
A	As defined by QAA: Written Examinations = 70%, Practical Exa	minations = 0%, Coursework = 30%	
Assessment pattern:	As used by St Andrews: Continual assessment 30% (essay) and 2hr Exam 70%		
Re-assessment pattern:	30% continual assessment, 70% written exam		
Module coordinator:	Dr M F Zwart		
Module coordinator Email:	mfz@st-andrews.ac.uk		
Module teaching staff:	Dr Maarten Zwart, Prof Keith Sillar, Dr Bill Heitler		

PN4234 Synaptic Transmission **SCOTCAT Credits:** SCQF level 10 15 Semester 2 Academic year: 2020-2021 **Availability restrictions:** BSc Hons Neuroscience students have priority on this module Lectures: 11.00 am - 12:30 pm Wed and 12.00 noon - 1.00 pm Fri. Practicals to be Planned timetable: 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. Pre-requisite(s): Before taking this module you must pass PN3313 Anti-requisite(s) You cannot take this module if you take BL4234 Weekly contact: A total of 6 x 1.5 hour seminars, 7 x 1 hour lectures and 2 x 3 hour Learning and teaching practicals over 10 weeks methods of delivery: Scheduled learning: 22 hours Guided independent study: 128 hours As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30% Assessment pattern: As used by St Andrews: Continual assessment 30% (10% commentaries and 20% lab report) and 2hr Exam 70% Re-assessment pattern: 2-hour Written Examination = 100% Dr W Li Module coordinator: Module coordinator wl21@st-andrews.ac.uk Email:

Dr W Li, Dr S Pulver, Dr A Smith

Module teaching staff:

PN4235 Motoneurons: From Physiology to Pathology SCQF level 10 **SCOTCAT Credits:** 15 Semester 1 Academic year: 2020-2021 **Availability restrictions:** BSc Hons Neuroscience students have priority on this module Lectures: 2.00 pm - 3.00 pm Mon and 9.00 am - 10.30 am Fri. Practicals to be Planned timetable: arranged. This module aims to provide in depth knowledge of key aspects of neuronal function and potential dysfunction by focussing on one of the most studied and best characterised classes of neurons in the central nervous system, motoneurons. The module will cover topics such as: the history of motoneurons in neuroscience research; the genetics controlling motoneuron development, the intrinsic electrical properties of motoneurons; synaptic inputs received by motoneurons; motoneuron recruitment; and motoneuron disease. Pre-requisite(s): Before taking this module you must pass PN3313 Anti-requisite(s) You cannot take this module if you take BL4235 Weekly contact: 10 hours of seminars, 6 hours of lectures and 6 hours of practical Learning and teaching over the semester. methods of delivery: Scheduled learning: 22 hours Guided independent study: 128 hours As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30% Assessment pattern: As used by St Andrews: Continual assessment 30% (10% commentaries and 20% lab report) and 2hr Exam 70% Re-assessment pattern: 2-hour Written Examination = 100% Module coordinator: Professor G B Miles Module coordinator gmb4@st-andrews.ac.uk Email: Module teaching staff: Dr W Li, Prof K Sillar, Prof G Miles, Dr W Heitler

PN4299 Neuroscience Research Project SCOTCAT Credits: 60 SCQF level 10 Semester Full Year Academic year: 2020-2021 Availability restrictions: Not automatically available to General Degree students

To be arranged with the supervisor.

Planned timetable:

This project will involve extensive laboratory or field research to investigate a defined problem broadly within biology, psychology, or neuroscience appropriate to the degree programme being studied by each student. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Psychology and Neuroscience or the School of Biology who will guide and advise them in research activities throughout the academic year.

Pre-requisite(s):	Before taking this module you must pass PN3312 and pass PN3313		
Anti-requisite(s)	You cannot take this module if you take BL4200 or take BL4201 or take PS4050 or take PS4299 or take PS4796 or take PS4797		
Learning and teaching	Weekly contact: Meetings with supervisor	or	
methods of delivery:	Scheduled learning: 33 hours	Guided independent study: 567 hours	
	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
Assessment pattern:	As used by St Andrews:		
	Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr G H Middleton		
Module coordinator Email:	ghm@st-andrews.ac.uk		
Module teaching staff:	Individual Supervisors across the School of Psychology and Neuroscience or the School of Biology		

PS3021	S3021 Research Design and Analysis 1						
	SCOTCAT Credits: 15 SCQF level 9 Semester 1						
	Academic year:	2020-2021					
	Availability restrictions:	Not available to General Degree Students.					
	Planned timetable:	Lectures: 9.00 am - 11.00 am Mon. 1-hour practical: one of Mon 1-2, 2-3, 3-4, 4-5					

This module is designed to provide a basic understanding of research design and statistics that will provide the foundations for independent empirical research and critical analysis required in the final year of the Honours programme. Emphasis will be placed on the acquisition of design and analysis skills and an understanding of the underlying philosophy that guides research. The syllabus will include core aspects such as ethical issues in research, basic statistics, technical writing and the use of statistical packages.

Pre-requisite(s):	Before taking this module you must pass PS2002		
Learning and teaching	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory/tutorial class or seminar.		
methods of delivery:	Scheduled learning: 30 hours	Guided independent study: 120 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 25%, Practical Examinations = 0%, Coursework = 75%		
	As used by St Andrews: 1-hour Written Examination = 25%, Coursework = 75%		
Re-assessment pattern:	1-hour Written Examination = 25%, Coursework = 75%, Re-assessment applies to failed components only		
Module coordinator:	Dr M W Oram		

PS3022 Research Design and Analysis 2

SCOTCAT Credits:	15	SCQF level 9	Semester	2
Academic year:	2020-2021			
Availability restrictions:	Not available to General Degree Students.			
Planned timetable:	Lectures: 9.00 am -	11.00 am Mon. 1-hour	practical: two of Mon 1-2	, 2-3, 3-4, 4-5

This module is designed to provide a more advanced understanding of research design and statistics. Emphasis will be placed on the acquisition of analytical skills covering typical research situations encountered in the behavioural sciences. There is also an emphasis on integration of concepts across a family of techniques based on correlation and regression. The syllabus will include such topics as multiple regression, path analysis, mediation analysis, factor analysis, ANOVA designs using regression, and moderated multiple regression. There is a focus on computerized data analysis, interpretation, and presentation. A section on qualitative analysis is included to highlight a broader range of research approaches and questions.

Pre-requisite(s):	Before taking this module you must take PS3021		
Learning and teaching	Weekly contact: 1 X 2-hour lecture (week (weeks 1-10)	s 1-11) and 2 X 1 hour laboratory/tutorial	
methods of delivery:	Scheduled learning: 42 hours	Guided independent study: 108 hours	
	As defined by QAA: Written Examinations = 70%, Practical Examinations = 0%, Coursework = 30%		
Assessment pattern:	As used by St Andrews: Written Examination = 70%, Coursework = 30%		
Re-assessment pattern:	Written Examination = 70%, Coursework = 30%		
Module coordinator:	Dr K I Mavor		
Module teaching staff:	Dr K Mavor, Dr S Pehrson, P Gardner		

PS3031 Conceptual Issues and Theoretical Perspectives SCQF level 9 **SCOTCAT Credits:** 10 Semester 1 Academic year: 2020-2021 Available to General Degree students with permission of the Psychology Honours Availability restrictions: Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module Planned timetable: runs in weeks 1-5 only) This module addresses the historical and philosophical background to current debates in psychology. The module will be taught via lectures and seminars including student presentations. Emphasis will be placed on the development of critical analysis of alternative models and levels of explanations of behaviour, and the ability to relate conceptual debates in psychology to issues in the real world. Pre-requisite(s): Before taking this module you must pass PS2002 Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks Learning and teaching 1 - 5). methods of delivery: Scheduled learning: 15 hours Guided independent study: 85 hours As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100% Assessment pattern: As used by St Andrews: Coursework = 100% Re-assessment pattern: Coursework = 100%

Assessment in Clinical Psy	chology				
SCOTCAT Credits:	10	SCQF level 9	Semester	2	
Academic year:	2020-2021	•	•	•	
Availability restrictions:	Available to General Adviser	Available to General Degree students with permission of the Psychology Honours Adviser			
Planned timetable:	Lectures: 9.00 am runs in weeks 6-10		our practical: one of Th	nu 2-3, 3-4, 4-5. (Module	
This module presents ps neuronal and/or cognitive and/or clinical neuropsych psychopathological condit use these tools in clinical a	-behavioural mechal ology. The module v ions by discussing th	nisms. Examples wi vill further explore i eir theoretical/stati	Il be drawn from the notes and	field of clinical psycholog procedures used to asses	
Pre-requisite(s):	Before taking this module you must pass PS2002				
Learning and teaching	Weekly contact: 1 6 - 10).	. x 2-hour lecture ar	d 1 x 1-hour laborator	y class or seminar (Weeks	
methods of delivery:	Scheduled learning: 15 hours Guided independent study: 85 hours			lent study: 85 hours	
As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%				Coursework = 0%	
Assessment pattern:	As used by St Andrews: 1.5-hour Written Examination = 100%				
Re-assessment pattern:	1.5-hour Written E	1.5-hour Written Examination = 100%			

Module coordinator:

Module coordinator:

Mr P L Gardner

Dr D Balslev

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SCOTCAT Credits:	10	SCQF level 9	Semester	2	
Academic year:	2020-2021				
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser				
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1.5-hour practical: Thu, either 2-3:30 or 3:30-5. (Module runs in weeks 1 - 5 only)				
discoveries in developmen a particular strength of suc	his module is designed to equip students with an appreciation of key principles, concepts, methods and iscoveries in developmental psychology, with an emphasis on evolutionary and comparative perspectives that are particular strength of such work in St Andrews. The module aims to offer a broad perspective spanning infancy to hildhood, and a range of key topics in cognitive and social development.				
Pre-requisite(s):	Before taking this m	nodule you must pass	PS2002		
Anti-requisite(s)	You cannot take this	s module if you take	PS3010 or take PS301	11	
Learning and teaching methods of delivery:	Weekly contact: 1 (Weeks 1 - 5).	x 2-hour lecture and	1 x 1.5-hour laborato	ry class or seminar	
methods of delivery.	Scheduled learning	: 18 hours	Guided independ	ent study: 82 hours	
Accordment nattors	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%				
Assessment pattern:	As used by St Andrews: Coursework = 100%				
Re-assessment pattern:	Coursework = 100%				
Module coordinator:	Dr E Robbins				

Social Psychology					
SCOTCAT Credits:	10	SCQF level 9	Semester	2	
Academic year:	2020-2021				
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser				
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only)				
This module explores in depth key topics across the breadth of social psychological enquiry. A variety of research approaches will be examined in order to develop the scientific understanding and critical skills in this field. Approaches that will be covered include social cognition, social identity and the study of intergroup relations. In each case, the strengths and limitations of the approaches are explored, and theoretical knowledge will be linked to current events.					
Pre-requisite(s):	Before taking this m	nodule you must pass F	\$2002		
Learning and teaching methods of delivery:	Weekly contact: 1 x 2-hour lecture and 1 x 1-hour laboratory class or seminar (Weeks 1 - 5)				
methods of delivery.	Scheduled learning	: 15 hours	Guided independent stu	dy: 85 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%				
	As used by St Andre	ews: Coursework = 100)%		
Re-assessment pattern:	Coursework = 100%				
Module coordinator:	Dr S D Pehrson				
Module coordinator Email:	sdp21@st-andrews.	ac.uk			
Module teaching staff:	Dr Samuel Pehrson	<u> </u>			

SCOTCAT Credits:	10	SCQF level 9	Semester	1	
Academic year:	2020-2021				
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser				
Planned timetable:		Lectures: 9.00 am - 11.00 am Tue. 1-hour practical: one of Tue 2-3, 3-4, 4-5 (Module runs in weeks 1 - 5 only).			
concerned with the biolo analysis of molecular and relationship between co	d synaptic events, sin	gle cell studies, bra	in activity scans, ar	nd clinical studies, and th	
examined.					
	Before taking this n	nodule you must pas	ss PS2002		
Pre-requisite(s): Learning and teaching					
Pre-requisite(s): Learning and teaching	Weekly contact: 1	x 2-hour lecture and	l 1 x 1-hour laborato		
Pre-requisite(s): Learning and teaching methods of delivery:	Weekly contact: 1 1 - 5) Scheduled learning As defined by QAA	x 2-hour lecture and g: 15 hours	l 1 x 1-hour laborato	ry class or seminar (Week dent study: 85 hours	
Pre-requisite(s):	Weekly contact: 1 1 - 5) Scheduled learning As defined by QAA	x 2-hour lecture and g: 15 hours :: ons = 100%, Practica ews:	Guided indepen	ry class or seminar (Weel	
Learning and teaching methods of delivery:	Weekly contact: 1 1-5) Scheduled learning As defined by QAA Written Examination As used by St Andr	x 2-hour lecture and g: 15 hours .: ons = 100%, Practica ews: xamination = 100%	Guided indepen	ry class or seminar (Weel	

Evolutionary and Compar	ative Psychology						
SCOTCAT Credits:	10	SCQF level 9	Semester	2			
Academic year:	2020-2021	2020-2021					
Availability restrictions:	Available to Genera Adviser	Available to General Degree students with permission of the Psychology Honours Adviser					
Planned timetable:		Lectures: 9.00 am - 11.00 am Tue. 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 6 - 10 only).					
understanding of major	evolutionary forces concepts and metho	and how they have odologies will be introd	is to psychology. The aim shaped animal and huma luced and related to specif aguage and cognition.	an behaviour an			
Pre-requisite(s):	Before taking this n	nodule you must pass F	PS2002				
Learning and teaching	Weekly contact: 1 (Weeks 6 - 10).	x 2-hour lecture and 1	x 1.5-hour laboratory class	s or seminar			
methods of delivery:	Scheduled learning	: 18 hours	Guided independent stu	dy: 82 hours			
Accoccment nattorn	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%						
Assessment pattern:	As used by St Andrews: Take-home format Written Examination (in 2 hour slot)= 100%						
Re-assessment pattern:	Take-home format	Written Examination =	100%				
Module coordinator:	Dr C L Hobaiter						
Module teaching staff:	Dr C Hobaiter						

Perception						
SCOTCAT Credits:	10	SCQF level 9	Semester	1		
Academic year:	2020-2021	2020-2021				
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser					
Planned timetable:	Lectures: 9.00 am - 11.00 am Tue. Four 1.5-hour practical: one of Tue 2-3:30, 3:30-5pm. (Module runs in weeks 7 - 11 only).					
The aim of this module is to develop an understanding of visual perception and its functions. Stress will be laid on the integration of findings from physiology, neuropsychology, anatomy, and experimental psychology. Topic areas covered will include theories of human vision and their application to understanding our ability to perceive distinct visual properties, for example the shape, size, location and identity of objects. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory.						
Pre-requisite(s):	Before taking this m	nodule you must pass P	² S2002			
Learning and teaching	Weekly contact: 1 or seminar spread of	•	veeks 7 - 11) and 4 x 1.5-ho	our laboratory class		
methods of delivery:	Scheduled learning	: 16 hours	Guided independent stu	dy: 84 hours		
Accessment nattern	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%					
Assessment pattern:	As used by St Andrews: 1.5-hour Written Examination = 100%					
Re-assessment pattern:	1.5-hour Written Ex	amination = 100%				
Module coordinator:	Dr J M Ales					
Module teaching staff:	Prof J Harris					

3 Cognition						
SCOTCAT Credits:	10	SCQF level 9	Semester	1		
Academic year:	2020-2021					
Availability restrictions:	Available to General Degree students with permission of the Psychology Honours Adviser					
Planned timetable:	Lectures: 9.00 am - 11.00 am Thu. 1-hour practical: one of Thu 2-3, 3-4, 4-5. (Module runs in weeks 7 - 11 only).					
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 criti Pre-requisite(s):	·	nodule you must pass F	252002			
Learning and teaching			x 1-hour laboratory class of	or seminar (Weeks		
methods of delivery:	Scheduled learning	: 15 hours	Guided independent stu	dy: 85 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%					
Assessment pattern.	As used by St Andrews: Written Examination = 100%					
Re-assessment pattern:	Written Examination	n = 100%				
Module coordinator:	Dr T Otto					

PS4040 Psychology Review SCOTCAT Credits: 10 SCQF level 10 Semester Full Year Academic year: 2020-2021 Availability restrictions: Available only to students in a Psychology Honours Programme. Planned timetable: Not applicable.

The aim of PS4040 is for students to develop the ability to critically evaluate current thinking in an area of psychology of their own choosing, by producing a 4,000 word review essay. Students will gain experience in pursuing an independent piece of work in close collaboration with a member of staff. Students will: 1) Develop skills in conducting literature searches using the university¿s library and electronic database facilities. 2) Develop skills in reading, digesting and critically evaluating psychological research articles. 3) Develop skills in writing about psychological concepts, theories, and data, and crafting a coherent, critical argument.

Pre-requisite(s):	Before taking this module you must pass	PS2002			
Co-requisite(s):	In the same year as taking this module you should take PS3021 and take PS3022				
Learning and teaching	weekly contact: Individual supervision by pre-assigned member of				
methods of delivery:	Scheduled learning: 3 hours	Guided independent study: 97 hours			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100% As used by St Andrews: Review = 100%				
Assessment pattern.					
Re-assessment pattern:	Coursework = 100%				
Module coordinator:	Dr A M Seed	Dr A M Seed			
Module coordinator Email:	ams18@st-andrews.ac.uk				
Module teaching staff:	Various				

PS4050 Psychology Project (30) **SCOTCAT Credits:** 30 SCQF level 10 Full Year Semester Academic year: 2020-2021 **Availability restrictions:** Available only to students in the second year of the Honours Programme Planned timetable: Not applicable. The aim of the project is to develop and foster the skills of experimental design, appropriate research management and statistical analysis. A wide choice of topics is possible, but the skills developed in modules PS3021, PS3022 and PS4040 are an essential preparation. The empirical part of the project may be conducted with another student, to allow greater research scope and the choice of more realistic problems, but all analysis and report-writing must be carried out individually. Topics range over all areas of psychology under active investigation in the School, and effort is made to arrange for students to work in one of their preferred areas. Pre-requisite(s): Before taking this module you must pass PS4040 and pass PS3021 and pass PS3022 You cannot take this module if you take PN4299 or take BL4200 or take PS4299 or take Anti-requisite(s) PS4796 or take PS4797 Weekly contact: Individual supervision by pre-assigned member of staff Learning and teaching methods of delivery: Scheduled learning: 30 hours Guided independent study: 270 hours As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100% Assessment pattern: As used by St Andrews: Research Report = 100% Re-assessment pattern: Research Report = 100% Module coordinator: Dr K I Mavor Module coordinator ken.mavor@st-andrews.ac.uk Email: Module teaching staff: Dr J Ainge

PS4060 Review Essay SCOTCAT Credits: SCQF level 10 Full Year 15 Semester Academic year: 2020-2021 **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 or neuroscience research finding to review (subject to approval by module controller). Students will engage with understanding the historical antecedents, as well as the theoretical and methodological context related to the area and the specific research finding. Students will also engage with how to develop evidence-based evaluation of the impact of research findings on psychological science/neuroscience and society. Module prerequisites may be waived for students with entry into Honours Psychology. Pre-requisite(s): Before taking this module you must pass PS2002 Anti-requisite(s) You cannot take this module if you take BL4200 or take PN4299 or take PS4299 Weekly contact: 6 x 1-hour workshops in Semester 1 Learning and teaching methods of delivery: Scheduled learning: 6 hours Guided independent study: 144 hours As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100% Assessment pattern: As used by St Andrews: Coursework = 100%

Coursework = 100%

jma23@st-andrews.ac.uk

Dr J M Ales

TBC

Collective Behaviour	T	T	T	1		
SCOTCAT Credits:	15	SCQF level 10	Semester	2		
Academic year:	2020-2021	2020-2021				
Availability restrictions:	Available only to st	Available only to students in the second year of the Honours Programme.				
Planned timetable:	To be arranged.					
This module aims to develop an advanced understanding of selected topics relating to the psychology of groups and collective behaviour. It will address how behaviour is affected by the group context and examine the psychological mechanisms which shape how people act as group members. Teaching will be seminar based and students will be expected to read independently and contribute actively to sessions. Emphasis will be placed on the development of critical skills and the ability to relate individual studies and theories to broader conceptual debates in social psychology. More detailed module content will be announced in advance of student choices. Pre-requisite(s): Before taking this module you must pass PS2002 Learning and teaching Weekly contact: 2-hour seminar plus tutorial time.						
Learning and teaching	Scheduled learning: 20 hours Guided independent study: 130 hours					
•	Scheduled learning	•	_	udy: 130 hours		
methods of delivery:	As defined by QAA Written Examinati	g: 20 hours A: ons = 75%, Practical Ex	Guided independent sto	vork = 25%		
methods of delivery: Assessment pattern:	As defined by QAA Written Examinati As used by St And	g: 20 hours A: ons = 75%, Practical Ex rews: 2-hour Written E	Guided independent sto aminations = 0%, Coursew xamination = 75%, Course	vork = 25% work = 25%		
methods of delivery:	As defined by QAA Written Examinati As used by St And	g: 20 hours A: ons = 75%, Practical Ex rews: 2-hour Written E	Guided independent sto	vork = 25% work = 25%		
methods of delivery: Assessment pattern:	As defined by QAA Written Examinati As used by St And 2-hour Written Exa	g: 20 hours A: ons = 75%, Practical Ex rews: 2-hour Written E mination = 75%, Cours	Guided independent sto aminations = 0%, Coursew xamination = 75%, Course	vork = 25% work = 25%		

Re-assessment pattern:

Module coordinator:

Module coordinator

Module teaching staff:

Email:

PS4071	S4071 Behavioural Neuroscience					
	SCOTCAT Credits:	15	SCQF level 10	Semester	1	
	Academic year:	2020-2021				
	Availability restrictions:	UG - 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.

Pre-requisite(s):	Module prerequisites may be waived for students with entry into Honours Psychology. Before taking this module you must pass PS2002			
Learning and teaching	Weekly contact: 2-hour seminars plus office hour.			
methods of delivery:	Scheduled learning: 20 hours	Guided independent study: 130 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
Assessment pattern.	As used by St Andrews: 2-hour Written Examination = 75%, Cou	rsework = 25%		
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only			
Module coordinator:	Dr E M Bowman			

PS4074 Cognitive Psychology and the Emotional Disorders

SCOTCAT Credits:	15	SCQF level 10	Semester	1	
Academic year:	2020-2021				
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.

Pre-requisite(s):	Before taking this module you must pass PS2002. Module prerequisites may be waived for students with entry into Honours Psychology			
Learning and teaching	Weekly contact: 2-hour seminars plus office hour.			
methods of delivery:	Scheduled learning: 20 hours	Guided independent study: 130 hours		
Assessment pattern:	As used by St Andrews:	Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
Re-assessment pattern:	2-hour Written Examination = 75%, Course components only	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only		
Module coordinator:	Dr B Dritschel			

PS4083 Psychology of Music

SCOTCAT Credits:	15	SCQF level 10	Semester	2
Academic year:	2020-2021			
Availability restrictions:	Available only to students in the second year of the Honours Programme.			
Planned timetable:	9-11 Wednesday Se	m 2		

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.

Pre-requisite(s):	Before taking this module you must pass PS2002		
Learning and teaching			
methods of delivery:			
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
Assessment pattern.	As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25%		
Re-assessment pattern:	2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed components only		
Module coordinator:	Dr I Jentzsch		

PS4084 Psychology of Art: Aesthetics and Individual Differences in Visual Function SCOTCAT Credits: 15 SCQF level 10 Semester 1 Academic year: 2020-2021 Availability restrictions: Available only to students in the second year of the Honours Programme. Planned timetable: 11.00 am - 1.00 pm Wed

This module examines the psychology of artistic activity and aesthetic appreciation, both from the standpoint of the artistic object (e.g., painting), as well as the individual who creates or appreciates art. Why are some things more aesthetically pleasing than others? Why do some people have a greater capacity to create aesthetic things? The module will explore the links between aesthetic creation and appreciation on the one hand and perceptual and cognitive processes on the other. These links will be examined from behavioural and neurological viewpoints. A significant emphasis will be on the neurological conditions that heighten differences in the capacity to create and appreciate aesthetic objects, including mental disorders (e.g., frontotemporal dementia, autism, epilepsy) and atypical cognitive development (e.g., synaesthesia, dyslexia). This will be a critical seminar style module with readings and discussions.

Pre-requisite(s):	Before taking this module you must pass PS2002		
Learning and teaching	Weekly contact: 2-hour seminars plus office hour.		
methods of delivery:	Scheduled learning: 22 hours	Guided independent study: 128 hours	
	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
Assessment pattern:	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr D Vishwanath		

Evolution and Develo	pment of Social and	Technical Intelligence		
SCOTCAT Credits:	15	SCQF level 10	Semester	1
Academic year:	2020-2021			
Availability	Available only to und	ergraduate students in t	he second year of the Hono	urs Programme.
restrictions:	Also available to post	graduate students on M	Sc Evolutionary and Compa	rative Psychology:
restrictions.	the Origins of Mind			
Planned timetable:	11.00 am - 1.00 pm F	ri		
increasingly wide range	of non-human animal s ptive studies of animals,	ave witnessed a surge of research on social and technical intelligence, both in humans and in an of non-human animal species. This module surveys the principal discoveries, integrating research on this studies of animals, using both observational and experimental methods, to trace the evolution and arring and culture.		
Pre-requisite(s):		Before taking this module you must pass PS2001 and pass PS2002. Module prerequisites may be waived for students with entry into Honours Psychology		
Learning and	Weekly contact: 2-h	our seminars plus office	hour.	
teaching methods of delivery:	Scheduled learning:	Scheduled learning: 20 hours Guided independent study: 130 hours		
	As defined by QAA:			
Assessment pattern:	Written Examination	s = 60%, Practical Exami	nations = 0%, Coursework =	: 40%
	As used by St Andrews: Continuous Assessment (essay) = 40%; Exam = 60%			0%
Re-assessment pattern:	Continuous Assessment (essay) = 40%; Exam = 60%			
Module coordinator:	Professor M J Carpen	Professor M J Carpenter Prof M Carpenter, Dr C P Cross		
Module teaching staff:	Prof M Carpenter, Dr			

PS4086 Theory of Mind in development, evolution and autism **SCOTCAT Credits:** 15 SCQF level 10 Semester 2 Academic year: 2020-2021 Available only to undergraduate students in the second year of the Honours Programme. **Availability** Also available to postgraduate students on MSc in Evolutionary and Comparative restrictions: Pyschology: the Origins of Mind Planned timetable: 9.00 am - 11.00 am Fri This module addresses the nature and origins of the social-cognitive ability known as 'mentalising' or 'theory of mind', whose function is to compute and understand the mental states of others (and oneself) in social interaction. This ability is at the heart of complex human cognition, including communication, cooperation and competition, and one of the most complex adaptive achievements in evolution. We will discuss cutting edge interdisciplinary research on the nature of theory of mind analysing its emergence in evolution and development, and how it applies to understanding the puzzle of autism. Pre-requisite(s): Before taking this module you must pass PS2002 Learning and Weekly contact: 2-hour seminars plus office hour. teaching methods of Scheduled learning: 22 hours Guided independent study: 128 hours delivery: As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25% Assessment pattern: As used by St Andrews: 2-hour Written Examination = 75%, Coursework = 25% 2-hour Written Examination = 75%, Coursework = 25%, Re-assessment applies to failed Re-assessment pattern: components only Module coordinator: Dr J Gomez Module teaching Dr J-C Gomez

staff:

PS4089 Neural Basis of Episodic Memory **SCOTCAT Credits:** SCQF level 10 Semester 2 15 Academic year: 2020-2021 **Availability restrictions:** Available only to students in the second year of the Honours Programme Planned timetable: 11.00 am - 3.00 pm Friday

This module will examine how the brain enables us to remember information from our personal experience. It will present students with cutting edge research using both humans and animals that gives us an insight into how the psychological components of episodic memory can be represented and processed by the brain. We will go on to look at how this type of research is applied in fields such as future thinking and memory decline in dementia. The course will include lectures and student presentations based around current research articles in the field.

Pre-requisite(s):	Before taking this module you must pass PS2002		
Learning and teaching	Weekly contact: 2-hour seminars plus office hour.		
methods of delivery:	Scheduled learning: 20 hours	Guided independent study: 130 hours	
	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
Assessment pattern:	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr J A Ainge		

1 Computer-aided Research	ı			
SCOTCAT Credits:	15	SCQF level 10	Semester	1
Academic year:	2020-2021			
Availability restrictions:	•	Available only to students in the second year of the Honours Programme, or Research Methods in Psychology (MSc)		
Planned timetable:	9.00 am - 11.00 am	Tue		
indispensable. This practic the skills necessary to app research context. This mo	al module will offer a ly it in your research dule will build on the imaging, stimulus pre Prerequisite PS3021 waived for students	more computationally intense, the ability to use modern research software is becoming all module will offer an introduction to computational modelling and provide you with y it in your research. Emphasis will be put on using scientific scripting languages in a lule will build on the statistical techniques learned in previous modules and introduce maging, stimulus presentation, and data visualisation. Prerequisite PS3021 is applicable to UG students only. Module prerequisites may be waived for students with entry into Honours Psychology or Honours Neuroscience. Before taking this module you must pass PS3022		
methods of delivery:	Scheduled learning	: 20 hours	Guided independent stu	dy: 130 hours
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100% As used by St Andrews: Coursework = 100%		k = 100%	
Re-assessment pattern:	Coursework = 100%			
Module coordinator:	Dr T Otto			

PS4093 The Psychology of Dementia **SCOTCAT Credits:** SCQF level 10 15 Semester 1 Academic year: 2020-2021 **Availability restrictions:** Available only to students in the second year of the Honours programme Planned timetable: 09.00 am - 11.0 pm Fri This module will examine the psychology of dementia focusing on the cognitive and psychosocial impact on individuals with a diagnosis and those who care for them. Students will examine patterns of both lost and retained cognitive skills in people with dementia. We will then focus on how retained skills can be maximised and how the caregiving experience can be improved for both people living with dementia and their caregivers. The module will include lectures and student presentations based around current research articles in the field. Pre-requisite(s): Before taking this module you must pass PS2002 Weekly contact: 1 lecture, 1 seminar plus office hour. Learning and teaching methods of delivery: Scheduled learning: 20 hours Guided independent study: 130 hours As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100% Assessment pattern: As used by St Andrews: Coursework = 60%, 90-minute Written Examination = 40% Re-assessment pattern: Coursework = 100% Module coordinator: Dr M P Ellis

Module teaching staff:

Dr M Ellis

PS4094 Communicating Psychology and Neuroscience SCOTCAT Credits: 15 SCQF level 10 Semester 2 Academic year: 2020-2021 Availability restrictions: Available only to students in the second year of the Honours programme Planned timetable: 11.00 am - 1.00 pm Mon

This module provides final year students within the School of Psychology and Neuroscience with first-hand experience of science communication through a series of expert led master-classes (e.g. Bright Club, BBC, print journalists, science bloggers), presentations and interaction with new media (e.g. podcasts, blogs, Twitter, FaceBook). This module will enable students to gain substantial experience of working to tight deadlines, evaluating how the media translates psychological/neuroscience findings and of communicating complex ideas at various different levels, including presenting work to the press, the public and school children. Topics covered may include: why scientists must communicate with the public; how psychology/neuroscience hits the headlines; evaluating media coverage; using new media to get the message across and designing a science exhibit. While of particular value to students aiming for a career in public engagement, these core skills are equally important for any career that requires good communication, including post-graduate study. In addition students will be required to monitor relevant periodicals and evaluate several new studies in psychology/neuroscience and so should expose students to the latest trends within the field.

Pre-requisite(s):	Before taking this module you must pass PS3021 or pass PN3313	
Anti-requisite(s)	You cannot take this module if you take ID4001 or take ID4002	
Learning and teaching	Weekly contact: 2-hour lecture, plus office hour and occasional fieldwork.	
methods of delivery:	Scheduled learning: 26 hours	Guided independent study: 124 hours
	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%	
Assessment pattern:	As used by St Andrews: Newspaper article (1000 words) = 30%; Blog article (500 words) = 20%; Podo 25%; School resource = 25%	
Re-assessment pattern:	Newspaper article (1000 words) = 30%; Blog article (500 words) = 20%; Podcast/video = 25%; School resource = 25%	
Module coordinator:	Dr S C Edwards	
Module teaching staff:	Dr S Edwards	

PS4096 Mechanisms of Behaviour: integrating psychological and neuroscience perspectives SCOTCAT Credits: 15 SCQF level 10 Semester 1 Academic year: 2020-2021 Availability restrictions: Available only to students in the second year of the Honours programme Planned timetable: 12 noon - 2pm Monday

The aim of this module is to explore some of the many physiological and neural systems that modulate patterns of behaviour in a range of species, including humans. It will highlight the importance of integrating information from psychology and neuroscience disciplines in order to further our understanding of how and why animals and humans behave the way they do in different situations. The module will deal with examples of mechanisms across different levels of complexity (from genes to physiology). The module will include lectures and student presentations/journal club discussions based around current research articles in the field and a practical session with hands on experience of a physiological technique.

Pre-requisite(s):	Before taking this module you must pass PS2002	
Learning and teaching methods of delivery:	Weekly contact : 2-hour lecture (x 10 weeks), 1 practical class (x 4 weeks) plus office hour.	
methous of delivery.	Scheduled learning: 24 hours	Guided independent study: 126 hours
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 15%, Coursework = 85% As used by St Andrews: Coursework (including presentation) = 100%	
Re-assessment pattern:	Coursework = 100%	
Module coordinator:	Professor K A Spencer	
Module teaching staff:	Dr S Edwards	

S4097	097 Research Methods in Cognitive Neuroscience				
:	SCOTCAT Credits:	15 SCQF level 10 Semester 2			
	Academic year:	2020-2021			
4	Availability restrictions:	Available only to students in the second year of the Honours programme			
Ī	Planned timetable:	9.00 am - 11.00 am	9.00 am - 11.00 am Tue		

Tremendous progress in technology allows now to observe the brain in action to understand the physical bases of behaviour. This module showcases this state of the art approach. Guided by a team of lecturers with first-hand expertise in trans cranial magnetic stimulation, neurophysiology, electrophysiology, behavioural modelling, neuropsychology and functional magnetic resonance imaging the students will develop their ability to evaluate and propose cutting edge research. The course includes lectures and student led discussions of current research topics.

Pre-requisite(s):	Before taking this module you must pass PS2002		
Learning and teaching	Weekly contact: 1 lecture, 1 seminar plus office hour.		
methods of delivery:	Scheduled learning: 22 hours	Guided independent study: 128 hours	
Accessed to attention	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
Assessment pattern:	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr D Balslev		
Module teaching staff:	Dr D Balslev, plus additional staff tbc		

PS4105 Clinical Neuropsychology SCOTCAT Credits: 15 SCQF level 10 Semester 2 Academic year: 2020-2021 Planned timetable: Lecture - Monday 9-11am

The module gives a theoretical foundation for future clinical and experimental work in an exciting, border crossing field between Psychology, Psychiatry and Neurology. It introduces students to theoretical concepts of neuropsychology, basics of neuropsychological rehabilitation. Students will also read and discuss clinical cases. At the end of the course, students should have gained an understanding of basic assumptions of clinical and experimental neuropsychology, and have knowledge of the most common disorders of higher mental functions. This includes disorders of perception, attention, executive functions, and memory. In addition, students should have developed a basic understanding of neuropsychological testing and rehabilitation.

Pre-requisite(s):	Before taking this module you must pass PS2001 and pass PS2002	
Learning and teaching	arning and teaching Weekly contact: 2-hourly class plus office hour	
methods of delivery:	Scheduled learning: 20 hours	Guided independent study: 132 hours
	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%	
Assessment pattern:	As used by St Andrews: 2-hour Written Examination = 100%	
Re-assessment pattern:	2-hour Written Examination = 100%	
Module coordinator:	Dr R H Sprengelmeyer	
Module coordinator Email:	rhs3@st-andrews.ac.uk	
Module teaching staff:	Dr Reiner Sprengelmeyer	

PS4299 Psychology Project (60) SCOTCAT Credits: 60 SCQF level 10 Semester Full Year Academic year: 2020-2021 Availability restrictions: Available only to students in the second year of the Honours programme

To be arranged with the supervisor.

Planned timetable:

This project will involve extensive laboratory or field research to investigate a defined problem broadly within psychology. The project will involve diligence, initiative and independence in pursuing the literature, good experimental design, good experimental and/or analytical technique either in the field or the laboratory, and excellent record keeping. The project will culminate in the production of a high-quality report that demonstrates a deep understanding of the chosen area of research. Students will be allocated to a member of staff within the School of Psychology and Neuroscience who will guide and advise them in research activities throughout the academic year.

Pre-requisite(s):	Before taking this module you must pass PS3021 and pass PS3022 and pass PS4040	
Anti-requisite(s)	You cannot take this module if you take PS4050 or take PS4060 or take PN4299 or take BL4200 or take PS4796 or take PS4797	
Learning and teaching	Weekly contact: 1-hour individual superv	ision sessions.
methods of delivery:	Scheduled learning: 20 hours	Guided independent study: 563 hours
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100% As used by St Andrews: Coursework = 100%	
Assessment pattern.		
Re-assessment pattern:	Coursework = 100%	
Module coordinator:	Dr K I Mavor	
Module coordinator Email:	ken.mavor@st-andrews.ac.uk	
Module teaching staff:	various	

Joint Project (30cr)						
SCOTCAT Credits:	30	SCQF level 10	Semester	Both		
Academic year:	2020-2021					
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.					
Planned timetable:	To be arranged.					
The aim of the project is to develop and foster the skills of experimental design, appropriate research manageme and analysis. The topic and area of research should be chosen in consultation with the supervisors in order determine that the student has access to sources as well as a clear plan of preparation.						
Pre-requisite(s):	The student requires a Letter of Agreement					
Anti-requisite(s)	Cannot take more than 30 credits in other dissertation/project modules					
Learning and teaching methods of delivery:	Weekly contact: As per Letter of Agreement.					
	Scheduled learning: () hours	Guided independent study	y: 0 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%					
	As used by St Andrews: As per Letter of Agreement.					
Re-assessment pattern:	As per Letter of Agreement.					

Joint Project (60cr)						
SCOTCAT Credits:	60	SCQF level 10	Semester	Full Year		
Academic year:	2020-2021					
Availability restrictions:	Available only to students in the Second year of the Honours Programme, who have completed the Letter of Agreement, downloadable from https://www.st-andrews.ac.uk/coursecatalogue). No student may do more than 60 credits in Dissertation or Project modules.					
Planned timetable:	To be arranged.					
and analysis. The	topic and area of res		mental design, appropriate in consultation with the sar plan of preparation.	_		
Pre-requisite(s):	The student requires a Letter of Agreement					
Anti-requisite(s)	Cannot take any other dissertation/project module					
Learning and	Neekly contact: As per Letter of Agreement.					
teaching methods of delivery:	Scheduled learning: 0) hours	Guided independent study	r: 0 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 0%					
	As used by St Andrews: As per Letter of Agreement.					
Re-assessment pattern:	As per Letter of Agreement.					