BSc Psychology & Biology

Awarding Institution: Teaching Institution: Relevant QAA subject benchmarking group(s): Faculty of Life Sciences For students entering Part 3 in 2009 Programme Director: Dr E Gaffan Programme Adviser: Dr D Savva Board of Studies: Psychology Accreditation: British Psychological Society Graduate Basis of Registration; Institute of **Biology Basis for Graduate Membership**

Summary of programme aims

The aim of studies in Psychology will be to introduce students to the wide range of approaches that constitute modern Psychology as a social and biological science. They are made aware of current research - its methods, applications and unresolved issues. Within the Biology component, the aim is to provide a sound knowledge base in biology as a whole to underpin the more specialised aspects. The course allows considerable flexibility for the student to emphasise either behaviour, ecology and conservation, or the physiological, cellbiological and genetic bases of behaviour, or a mixture of those aspects if required. In both components, students have the opportunity to apply their knowledge to chosen areas of interest, increasing their degree of choice and independence as they move through the programme, with staff research expertise providing stimulation, guidance and high-quality laboratory facilities. Students will also be enabled to develop an ability to analyse, synthesise and evaluate scientific information.

Transferable skills

During the course of their studies at Reading, all students will be expected to enhance their academic and personal transferable skills in line with the University's Strategy for Learning and Teaching. In following this programme, students will have had the opportunity to develop such skills, in particular relating to written and oral communication, interpersonal skills, learning skills, numeracy, self-management, use of IT, problem-solving, project management and reporting, and encouraged to further develop and enhance the full set of skills through a variety of opportunities available outside their curriculum.

Programme content

The profile which follows states which modules must be taken (the compulsory part), together with one or more lists of modules from which the student must make a selection (the 'selected' modules). Students must choose such additional modules as they wish, in consultation with their programme adviser, to make 120 credits in each Part.

Part 1 (three terms)		Level
les:		
Psychological Research 1	10	С
Perception & Learning	10	С
Introduction to Neuroscience	10	С
	les: Psychological Research 1 Perception & Learning	les: Psychological Research 1 10 Perception & Learning 10

UCAS code: CC18

The University of Reading The University of Reading Psychology and Biosciences Programme length: 3 years Date of profile: Apr 2009

PY1PR2	Psychological Research 2	10	С
PY1CA	Cognition & Applied Psychology	10	С
PY1DS	Developmental & Social Psychology	10	С
BI1BA1	The Living Cell	10	С
BI1BC2	Genes and Chromosomes	10	С
Either BI1EC1	Exploiters and Exploited	10	С
Or BI1EC12	Exploiters and Exploited	20	С

Optional modules:

Other modules to make a total of 120 credits will be chosen in consultation with the Programme Director. These may include

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PY1SK	Skills for Psychology	20	С
BI1ED2	Mammals, diversity, behaviour and conservation	10	С
AP1A18	Digestion and nutrition	10	С
BI1BB2	Biochemistry and metabolism	10	С
BI1EF2	Ecology: species and their interactions	10	С
BI1BG3	Practical biochemistry	10	С
CH1FC1	Fundamental Chemistry A	10	С
PM1PB2	Human Physiology	20	С
PM1PB2A	Physiology	10	С

Part 2 (three terms)

Compulsory mod	lules:		
PY2RMJ	Research Methods 2 for Joint Honours	10	Ι
PY2D1	Developmental & Social Psychology 1	10	Ι
BI2BM5	Science Communication	10	Ι

At least one of:

PY2N1 PY2N2	Neuroscience 1 Neuroscience 2	10 10	I I
At least one of:			
PY2C1	Cognition 1	10	Ι
PY2C3	Cognition 3	10	Ι

Optional modules

Modules chosen from the following, if necessary, to make an overall total of 60 credits in *Psychology*:

PY2C2	Cognition 2	10	Ι
PY2AP	Applied Psychology	10	Ι
PY2D2	Developmental & Social Psychology 2	10	Ι
PY2CL	Clinical Psychology	10	Ι

British Psychological Society Graduate Basis of Registration. Students must gain Lower Second Class Honours or higher to qualify for BPS GBR.

Psychology Part 2 modules PY2RM1 + PY2RMJ + PY2D1 + *either* PY2N1 *or* PY2N2 + *either* PY2C1 *or* PY2C3 are the minimum required for BPS accreditation. *See also Part 3 Project.*

Other modules will be chosen in consultation with the Programme Director to bring the Part 2

programme to a total of 120 credits. These will normally be chosen from the modules listed below, but up to 20 further credits can be taken in Psychology.

BI2BK5	Molecular biology of gene expression	10	Ι
BI2BB4	Endocrinology	10	Ι
BI2BE4	Pharmacology and toxicology	10	Ι
BI2BD4	Life and death of the cell	10	Ι
BI2BN5	Vertebrate zoology	10	Ι
BI2EE4	Evolutionary Biology	10	Ι
BI2EN5	Animal behaviour	10	Ι
BI2BD4	Life and death of the cell	10	Ι
BI2BL5	Protein structure and function	10	Ι
BI2EI4	Invertebrate zoology	10	Ι
BI2BI5	Immunology	10	Ι
BI2BP6	Practical Skills: Recombinant DNA exercise	10	Ι

Part 3 (three terms)

Compulsory modules:

PY3P** or 1	BI3PRO** Project	40	Н
PY3C	Contemporary Issues in Psychology	10	Н

****British Psychological Society Graduate Basis of Registration**. To qualify for BPS accreditation, the Project must be passed with at least 40%, and the topic chosen must be suitable to be examined by a Psychology Examiner.

Optional modules:

3 modules to the value of 30 credits chosen from a list of Psychology options such as the following:

B.			
PY3ACP	Cognitive Perspectives of Adult Clinical Psychology	10	Η
PY3AP	Auditory Perception	10	Η
PY3ASD	Autism Spectrum Disorders	10	Η
PY3AV	Active Vision	10	Η
PY3CA	Cognitive Neuropsychology of Ageing	10	Η
PY3CLM	Clinical Aspects of Learning and Memory	10	Η
PY3CBD	Cognitive Behavioural Approaches to Psychological		
	Disorders	10	Η
PY3DN	Developmental Neuroscience	10	Η
PY3ELD	Early Lexical Development	10	Η
PY3FP1	Forensic Psychology 1: Managing Offending Behaviou	ır10	Η
PY3FP2	Forensic Psychology 2: Clinical Applications of		
	Forensic Psychology	10	Η
PY3GD	Genes and Development	10	Η
PY3HP	Health Psychology	10	Η
PY3IC	Implicit Cognition	10	Η
PY3IR	Issues in Rationality	10	Η
PY3LPA	Lexical Processing & Aphasia	10	Η
PY3NFD	Neuropsychology of Frontostriatal Disorders	10	Η
PY3OS	Occupational Stress	10	Η
PY3PCD	Psychopharmacology of Clinical Disorders	10	Η
PY3RA	Risk & Accidents	10	Η
PY3SC	Social Cognition	10	Η

PY3WMC	Working Memory & Cognition	10	Н
PY3TDV	3D Vision	10	Η
PY3CTT	Cognitive & Behavioural Theory to Therapy	10	Η
PY3SAN	Social & Affective Neuroscience	10	Η
PY31GR	Improving Intergroup Relations	10	Н

2 modules to the value of 40 credits chosen from a list of options such as the following:

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BI3BE7	Cardiovascular disease	10	Η
BI3BD8	Cancer	10	Η
BI3BA7	Medical genetics	10	Η
BI3EJ7	Conservation biology	10	Η
BI3EG7	Evolutionary genetics and phylogeny	10	Н
BI3BH8	Mammalian reproduction	10	Η
BI3EK8	Behavioural ecology and life history theory	10	Η
BI3EI8	Research topics in ecology	10	Η
BI3ED6P	Marine biology field course	10	Н

Progression requirements

Part 1. To gain a threshold performance at Part 1 a student shall normally be required to achieve an overall average of 40% over 120 credits taken in Part 1, and a mark of at least 30% in individual modules amounting to not less than 100 credits. **In order to progress from Part 1 to Part 2 in Psychology and Biology**, a student shall normally be required to achieve a threshold performance at Part 1 and to have obtained at least 40% in the Psychology modules PY1PR1, PY1PL, PY1IN, PY1PR2, PY1CA and PY1DS averaged together, with at least 30% in 5 or more of those 6 modules; and to have obtained at least 40% in the compulsory SBS modules averaged together.

Part 2. To gain a threshold performance at Part 2 a student shall normally be required to achieve: an overall average of 40% over 120 credits taken in Part 2, and a mark of at least 30% in individual modules amounting to not less than 100 credits.

In order to progress from Part 2 to Part 3, a student should normally be required to achieve a threshold performance at Part 2.

To be eligible for Honours students must pass the Project module.

Summary of teaching and assessment

Teaching is organised in modules that are principally taught by lectures, but may also involve practicals or seminars. Modules are assessed by a mixture of coursework and formal examination; only the Part 3 Project is assessed 100% by coursework. At Part 1 the coursework principally constitutes essays and practical reports; at Part 2, essays and short project reports; at Part 3, essays, some presentations (e.g. oral presentations, poster) and the Project report. The proportion of credit for coursework relative to examinations increases from Part 1 to Part 3 as students become more independent. The assessment is carried out within the University's degree classification scheme, details of which are in the programme handbooks. Part 2 contributes one third of the overall assessment and Part 3 the remaining two thirds.

Admission requirements

Entrants to this programme are normally required to have obtained Grade B or better in Mathematics, English and the Sciences at GCSE; and to have achieved: A Levels at AAB including at least 2 sciences (Biology and Chemistry preferred). Higher points may be required if only Biology or Chemistry is offered. Other qualifications: Irish Leaving Certificate AAABB (including Biology), International Baccalaureate Highers 7,7,6 / 7,6,6 and 5 in Ordinary Mathematics. Mature students and those with other qualifications are encouraged to apply.

Admissions Officer: Mrs Teresa Young (Psychology)

Support for students and their learning

University support for students and their learning falls into two categories. Learning support includes IT Services, which has several hundred computers and the University Library, which across its three sites holds over a million volumes, subscribes to around 4,000 current periodicals, has a range of electronic sources of information and houses the Student Access to Independent Learning (S@IL) computer-based teaching and learning facilities. There are language laboratory facilities both for those students studying on a language degree and for those taking modules offered by the Institution-wide Language Programme. Student guidance and welfare support is provided by Personal Tutors, the Careers Advisory Service, the University's Disability Officer, Study Advisors, Hall Wardens and the Students' Union. Each Part of the programme has a Year Tutor, based in the Psychology Department, whose role is to provide information to students in that year. The Senior Tutor monitors the progress of all students (liaising with the School Administrator) and advises those who fall behind in academic work. Staff with relevant expertise, e.g. in dyslexia, support the School Disability Advisor, and we work closely with the University Study Advisors who are psychologists. The School of Psychology and School of Biological Sciences have extensive laboratory facilities for practical and project work.

Career prospects

The degree offers entry to many careers encompassing most that might normally be open to Psychology or Biology graduates. Because the degree is accredited by the British Psychological Society, graduates are qualified to enter professional training as, for example, clinical or educational psychologists. Psychology graduates generally move into an extremely wide range of careers with some bias towards health and education, but extending to many other professional roles. Biological science graduates enter careers in industry [pharmaceutical, biomedical] management [e.g. health service] the Civil Service [research institutes] or other public bodies [e.g. conservation]. Psychology and Biology graduates will be particularly well-equipped to specialise in the biological aspects of behaviour. As numerate scientists they also enter a wide variety of other commercial and business occupations. Many go on to postgraduate training.

Opportunities for study abroad

Students may have the opportunity to take part in the Socrates exchange programme in which they can spend the first term of Part 3 studying in another European University. Recent exchanges have taken place with the Universities of Bergen, Cork, Crete, Montpellier, Rostock, Thessaloniki, Tours, Trondheim and Uppsala.

Educational aims of the programme

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Programme Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills, qualities and other attributes in the following areas:

A. Knowledge and understanding of:

- 1. the fundamental principles and concepts of the biological systems from the molecular to the ecological levels of organisation
- concepts, theories and evidence in at least five of six core psychology domains: research methods, individual differences, biological, cognitive, developmental and social psychology
- 3. a broad variety of methods and approaches used in biological and psychological research, including statistics as applied to biological and behavioural data
- 4. practical applications of theory and research
- 5. a selection of optional specialist topics, studied in depth using up-to-date research evidence
- 6. ethical issues in research and appropriate conduct by researchers

Teaching/learning methods and strategies

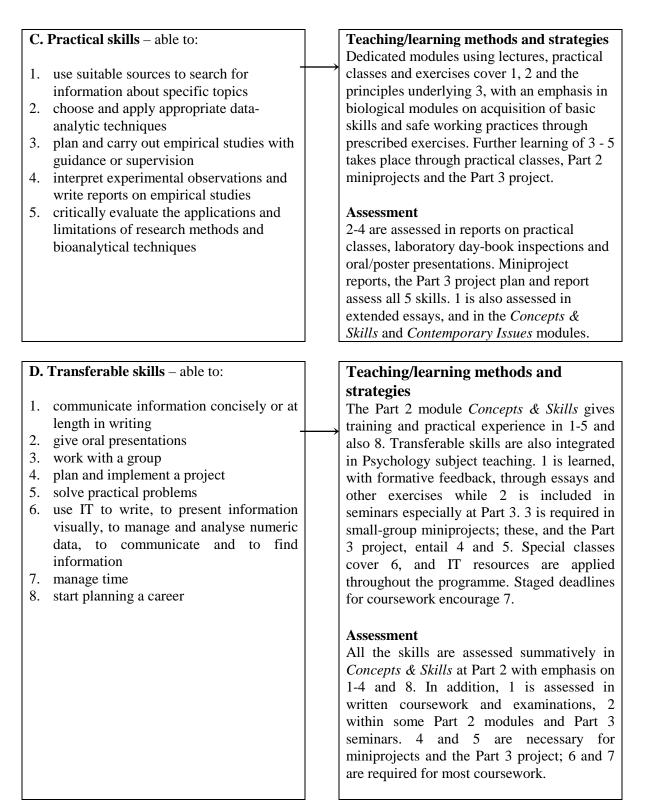
1-4 are covered in lectures and seminars. 3 is further supported by practical classes and exercises, miniprojects, computer-simulated practicals, directed student-centred learning and Part 3 projects. Part 3 options cover 5 and extend 1-4 to a more advanced level. Students learn about 6 from participating in research studies in which the principles are made explicit, from lectures, and (where relevant) while planning the Part 3 project.

Assessment

1-5 are assessed by unseen or open-book examinations, coursework essays, reports on empirical work, oral and poster presentations and other exercises. The Part 3 project assesses 3 and 4 through the rationale for the choice of methods, and (where relevant) 6 in the plan and final report.

Skills and other attributes

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В.	Intellectual skills – able to:	Teaching/learning methods and strategies
		1-3 are explicated in lectures and option
1.	use evidence-based reasoning to argue or	seminars. Part 3 option seminars focus
	evaluate a claim	strongly on 1 and 3. The Contemporary
2.	apply multiple perspectives and levels of	Issues module is not formally taught but
	explanation to understand biological	gives scope for all of 1-5, especially 5.
	processes and behaviour	Essays, increasing in length through the
3.	critically evaluate the design and conduct	programme, provide practice in 1-5 with
	of biological and psychological research	formative feedback. The Concepts & Skills
4.	write well-structured and well-argued	module and miniprojects at Part 2, and the
	essays	Part 3 project, develop 6 and 7.
5.	integrate material from different fields of	
	psychology, biology and cognate areas	Assessment
6.	integrate theory and practice	1-4 are assessed in examinations and
7.	formulate and test hypotheses	coursework. 5 is encouraged and evaluated
		throughout, and is emphasised in the
		Contemporary Issues module (assessed by a
		pre-seen and planned examination paper).
		6 and 7 are assessed at several stages and
		particularly in the Part 3 project.



Please note: This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably expect to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in module and programme handbooks.