BSc Psychology & Biology For students entering Part 1 in 2006

UCAS code: CC18

Awarding Institution:The University of ReadingTeaching Institution:The University of ReadingRelevant QAA subject benchmarking group(s):Psychology and BiosciencesFaculty of Life SciencesProgramme length: 3 yearsDate of profile: Feb 2008Programme Director: Dr E GaffanProgramme Director: Dr E GaffanProgramme Adviser: Dr D SavvaBoard of Studies: PsychologyAccreditation: British Psychological Society Graduate Basis of Registration; Institute ofBiology Basis for Graduate MembershipFaculty 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, cell-biological 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

The University's Strategy for Teaching and Learning has identified a number of generic transferable skills which all students are expected to have developed by the end of their degree programme. In following this programme, students will have had the opportunity to enhance their skills relating to career management, communication (both written and oral), information handling, numeracy, problem-solving, team working and use of information technology.

As part of this programme students are expected to have reached an appropriate level of competence in a number of transferable skills which include: the ability to communicate clearly and effectively both verbally and in writing; an ability to take responsibility for their own learning; modern techniques in information retrieval, data handling, the use of information technology; presentation and analysis of quantitative data; written reports on projects; oral presentation and written summary of research and other material; critical evaluation of research; project management; the ability to work effectively as individuals and in a group. Students will have been encouraged to become aware of career opportunities and of the organisation and activities of science-based business and to have taken steps to plan their career path.

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)		Credits	Level
Compulsory mod	dules:		
PY11A	Psychological Research 1	10	С
PY11B	Perception & Learning	10	С
PY11C	Introduction to Neuroscience	10	С
PY12D	Psychological Research 2	10	С
PY12E	Cognition & Applied Psychology	10	С
PY12F	Developmental & Social Psychology	10	С
BI1C10	Cell biology and biochemistry	10	С
BI1C11	Genetics and molecular biology	10	С
BI1M10	Biodiversity	10	С

Optional modules:

Other modules to the value of 30 credits will be chosen in consultation with the Programme Director. These may include

AM1Z10	The whole mammal	10	С
AM1C13	Digestion and nutrition	10	С
AM1C14	Biochemistry and metabolism	10	С
BI1Z10	Ecology	10	С
AM1M13	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:		
PY2RM1	Research Methods & Data Analysis 1	10	Ι
PY2D1	Developmental & Social Psychology 1	10	Ι
BI2BM5	Science Communication	10	Ι

At least one of: PY2N1 Neuroscience 1 10 Ι PY2N2 *Neuroscience 2* 10 Ι *At least one of:* PY2C1 Cognition 1 10 Ι Cognition 3 Ι PY2C2 10

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
PY2RM2	Research Methods & Data Analysis 2	10	Ι
PY2D2	Developmental & Social Psychology 2	10	Ι

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PY2CL	Clinical Psychology	10 I	

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 + PY2D1 + *either* PY2N1 *or* PY2N2 + *either* PY2C1 *or* PY2C2 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.

AM2C31	Molecular biology and informatics	10	Ι
AM2C32	Endocrinology	10	Ι
AM2C33	Pharmacology and toxicology	10	Ι
AM2Z32	Vertebrate zoology	10	Ι
BI2Z31	Micro-evolution	10	Ι
BI2BD4	Life and death of the cell	10	Ι
AM2Z33	Animal behaviour	10	Ι
BI1BE2	Introduction to human disease	10	Ι
AM2C35	Cellular biology	10	Ι
AM2C36	Protein structure and function	10	Ι
AM2C38	Receptors and signal transduction	10	Ι
AM2Z34	Invertebrate zoology	10	Ι
AM2Z35	Immunology	10	Ι
AM2C40	Recombinant DNA exercise	10	Ι
AM2C39	Regulation of gene expression	10	Ι
AM2Z38	Field course	10	Ι

Part 3 (three terms)

Compulsory mod	ules:		
PY3P** or l	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:

PY3ACP	Cognitive Perspectives of Adult Clinical Psychology	10	Н
PY3AP	Auditory Perception	10	Н
PY3ASD	Autism Spectrum Disorders	10	Н
PY3AV	Active Vision	10	Η
PY3CA	Cognitive Neuropsychology of Ageing	10	Н
PY3CLM	Clinical Aspects of Learning and Memory	10	Η
PY3CPA	Clinical Psychology of Adulthood	10	Η
PY3DN	Developmental Neuroscience	10	Η
PY3ELD	Early Lexical Development	10	Η
PY3FP1	Forensic Psychology 1: Managing Offending Behaviour	10	Η
PY3FP2	Forensic Psychology 2: Clinical Applications of		

	Forensic Psychology	10	Н
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
PY3VSD	Visual & Spatial Development	10	Η
PY3WMC	Working Memory & Cognition	10	Η

2 modules to the value of 20 credits chosen from a list of options such as the following:

AM3C71	Cardiovascular disease	10	Η
AM3C72	Cancer	10	Η
AM3C73	Chromosome mapping and genetic disease	10	Η
AM3Z74	Conservation biology	10	Η
AM3Z75	Evolutionary genetics and phylogeny	10	Η
AM3C78	Mammalian reproduction	10	Η
AM3Z76	Behavioural ecology and life history theory	10	Н
AM3Z77	Research topics in ecology	10	Н
AM3Z80	Marine biology field course	10	Η

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 PY11A, PY11B, PY11C, PY12D, PY12E and PY12F 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 34 points including 5 in Ordinary Mathematics. Mature students and those with other qualifications are encouraged to apply.

Admissions Tutor: Dr Patricia Riddell (Psychology) 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, monitor their progress (liaising with the Course Administrator) and advise those who fall behind in academic work. Psychology staff with relevant expertise, e.g. in dyslexia, support the departmental Disability Officer. The School of Psychology and School of Animal and Microbial 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

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, cell-biological 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.

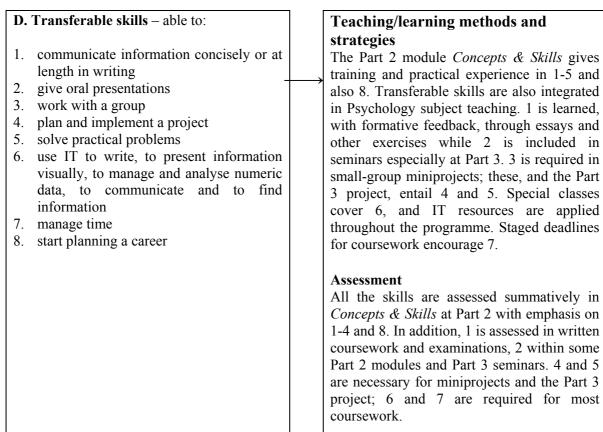
Programme Outcomes

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

<u> </u>		г	
А.	Knowledge and understanding of:		Teaching/learning methods and strategies
			1-4 are covered in lectures and seminars. 3 is
1.	the fundamental principles and concepts		further supported by practical classes and
	of the biological systems from the		exercises, miniprojects, computer-simulated
	molecular to the ecological levels of		practicals, directed student-centred learning
	organisation		and Part 3 projects. Part 3 options cover 5
2	e		
2.	concepts, theories and evidence in at		and extend 1-4 to a more advanced level.
	least five of six core psychology		Students learn about 6 from participating in
	domains: research methods, individual-	\longrightarrow	research studies in which the principles are
	differences, biological, cognitive,		made explicit, from lectures, and (where
	developmental and social psychology		relevant) while planning the Part 3 project.
3.	a broad variety of methods and		
	approaches used in biological and		Assessment
	psychological research, including		1-5 are assessed by unseen or open-book
	statistics as applied to biological and		examinations, coursework essays, reports on
	behavioural data		empirical work, oral and poster presentations
4.	practical applications of theory and		and other exercises. The Part 3 project
	research		assesses 3 and 4 through the rationale for the
5.	a selection of optional specialist topics,		choice of methods, and (where relevant) 6 in
	studied in depth using up-to-date		the plan and final report.
	research evidence		A A
6.	ethical issues in research and appropriate		
0.	conduct by researchers		
L			
	Skills and	otner	attributes

Knowledge and Understanding

B. Intellectual skills – able to: Teaching/learning me	
	ethods and strategies n lectures and option ption seminars focus
	3. The Contemporary
	t formally taught but
	of 1-5, especially 5.
	n length through the
	practice in 1-5 with
	The Concepts & Skills
	ects 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	
	in examinations and
	ouraged and evaluated
	emphasised in the
	module (assessed by a
pre-seen and planned e	1 1 /
	at several stages and
particularly in the Part	3 project.
C. Practical skills – able to: Teaching/learning mo	
1. use suitable sources to search for Dedicated modules usi classes and exercises c	
information about specific topics principles underlying 3	
2. choose and apply appropriate data- biological modules on	
analytic techniques skills and safe working	
	Further learning of 3 - 5
guidance or supervision takes place through pra	
4. interpret experimental observations and miniprojects and the Pa	art 3 project.
write reports on empirical studies	
5. critically evaluate the applications and Assessment	
limitations of research methods and 2-4 are assessed in rep	
bioanalytical techniques classes, laboratory day	ns. Miniproject reports,
the Part 3 project plan	
skills. 1 is also assesse	
and in the Concepts &	
Contemporary Issues r	



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 be expected 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 the module description and in the programme handbook. The University reserves the right to modify this specification in unforeseen circumstances, or where the process of academic development and feedback from students, quality assurance processes or external sources, such as professional bodies, requires a change to be made. In such circumstances, a revised specification will be issued.