# **BSc Hons Zoology** For students entering Part 1 in 2004

Awarding Institution: Teaching Institution: Relevant QAA subject benchmarking group(s):

Faculty of Life Sciences	
Date of specification:	April 2006
Programme Director:	Dr P E Hatcher
Programme Adviser:	tba
Board of Studies:	BioEnvironmental Sciences
Accreditation:	None

UCAS code: C300

University of Reading University of Reading Biosciences Programme length: 3 years

# Summary of programme aims

To enable the student to gain a broad understanding of the main areas of zoology and an in-depth understanding of selected areas. These aims are achieved by the study of a range of animals and of the interactions between them. Animals are considered from the structural, physiological, ecological, behavioural, taxonomic, developmental and evolutionary viewpoints, and are also studied as selfsupporting systems.

### **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 in the laboratory and in the field, and use of information technology. Students will also gain experience in the methodology of research and scholarship.

### **Programme content**

The profile which follows states which modules must be taken (the compulsory part), together with recommended modules (Part 1 only), and optional modules thought to be most appropriate for zoologists. Students must choose modules offered by the School of Biological Sciences or other University of Reading Schools and Departments, subject to the agreement of the Programme Adviser, to a total of 120 credits in each Part.

Part 1 (three terms)		Credits	Level
Compulsory mod	ules		
BI1S11	Concepts and skills in biology 1	10	С
BI1C10	Cell biology and biochemistry	10	С
BI1C11	Genetics and molecular biology	10	С
BI1M10	Biodiversity	10	С

Recommended modules

		Credits	Level
AM1Z11	Environmental biology	10	С
AM1C12	Animal physiology	10	С
AM1Z10	The whole mammal	10	С
BI1Z10	Ecology	10	С
BI1Z11	Community ecology	10	С

Students without AS or A2 level Chemistry or equivalent must take:

BI1S10	Chemistry for biologists	10	C
DIIOIO		10	

### *Optional modules*

Students will choose further modules up to a total of 120 credits subject to the agreement of the Programme Adviser.

Part 2 (three terms)		Credits	Level
Compulsory modules			
AM2C31	Molecular biology and bioinformatics	10	Ι
BI2Z31	Micro-evolution	10	Ι
AM2Z39	Practical molecular zoology	10	Ι
BI2B31	Macro-evolution	10	Ι
AM2Z32	Vertebrate zoology	10	Ι
AM2Z34	Invertebrate zoology	10	Ι
AM2Z38	Field course	10	Ι
AM2S31	Concepts and skills in Biology 2	10	Ι

### **Optional modules**

Students will choose further modules up to a total of 120 credits. Modules within SBS considered most suitable for zoologists are listed below. However, modules from other Departments or Schools (including the Institution Wide Language Programme) may be chosen subject to the agreement of the Programme Adviser

AM2Z33	Animal behaviour	10	Ι
AM2Z35	Immunology	10	Ι
AM2Z41	Applied Ecology	10	Ι
AM2Z37	Aquatic biology	10	Ι
rt 3 (three ter	ms)		

#### Par Co

ompulsory modi	iles		
AM3S75	Project	40	Η
AM3Z79	Animal Diversity	10	Η

### **Optional modules**

Students will choose further modules up to a total of 120 credits. Modules within AMS considered most suitable for zoologists are listed below. However, modules from other Departments or Schools (including the Institution Wide Language Programme) may be chosen subject to the agreement of the Programme Adviser

		Credits	Level
AM3Z72	Insects and Society	10	Н
AM3Z74	Conservation biology	10	Н
AM3Z75	Evolutionary genetics and phylogeny	10	Н
AM3Z76	Behavioural ecology and life history theory	10	Н
AM3Z77	Research topics in ecology	10	Н
AM3Z78	Biology of Spiders	10	Н
AM3Z80	Marine field course	10	Н
AM3C78	Mammalian Reproduction	10	Н

### **Progression requirements**

### **Progression from Part 1 to Part 2**

In order to proceed from Part 1 to Part 2, students must pass the Part 1 examination by achieving an overall mark of at least 40%. A minimum threshold mark of 30% must be obtained for each module. However, module marks equivalent to 20 credits may be condoned if the student has attempted the examination and shown reasonable diligence in attending the modules. Part 1 does not contribute to the final degree assessment.

# **Progression from Part 2 to Part 3**

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 shall normally be required to achieve a threshold performance at Part 2.

### Summary of teaching and assessment

Teaching is organised in modules that typically involve both lectures and practical classes and studentled seminars. The assessments are carried out within the University's degree classification scheme, details of which are in the programme handbooks. The pass mark in each module is 40%.

Part 2 contributes one third of the overall assessment and Part 3 the remaining two thirds. In order to be eligible for Honours, students must pass the Part 3 examination overall and gain at least 40% in the Project.

The assessment is carried out within the University's degree classification scheme, details of which are in the programme handbooks.

### **Admission requirements**

Entrants to this programme are normally required to have obtained:

**UCAS Tariff** : *Points/grades 280/BBC from no more than 4 subjects at A-level.* Subjects and levels of qualification : *Biology Grade B and one* other A-level Science (preferably Chemistry) at grade C. The University supports Key Skills and will take account of points awarded for Key Skills although they are not part of the entry requirements. Entrants will also require Grade B at GCSE in Maths, Science and English.

Irish Highers : *BBBBB (including Biology and preferably Chemistry)* International Baccalaureat : 31 points (including Biology and preferably Chemistry)

Mature students and those with other qualifications are encouraged to apply

Admissions Tutor: Dr. Mark Fellowes

### 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 Special Needs Advisor, Study Advisors, Hall Wardens and the Students' Union.

The Programme Adviser is available to offer advice on the choice of modules within the degree course.

### **Career prospects**

After graduation, students will be qualified to undertake a zoological career in a range of areas, or to use skills and problem-solving abilities in careers not directly related to zoology. Honours graduates will be eligible for membership of the Institute of Biology and Chartered Biologist status.

### **Opportunities for study abroad :**

The Erasmus programme (within Socrates) enables undergraduates to undertake project work for one term in their final year at one of a number of European Universities. Recent exchanges involving the School of Biological Sciences students have taken place with the following: University of Uppsala, Sweden; University College Cork, Ireland; University of Zaragoza, Spain; and University of Siena, Italy.

# Educational aims of the programme

After Part 1, students will have gained an understanding of the basic concepts of modern zoology. After Part 2, students will have deepened their understanding of biological concepts and developed a range of expertise over the main areas of the subject. After Part 3, selected subjects will have been studied in depth and students will be equipped to tackle detailed problem-solving and analytical tasks.

During these studies students will be exposed to a variety of information sources and techniques and be trained in various skills including those used in reasoning, argument and communication. Several transferable skills will be acquired including the ability to design and execute experiments in the laboratory and in the field (including working in a team), access information, interpret data using statistics and computing, write essays and reports and give oral presentations.

### **Programme Outcomes**

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

<ul> <li>A. Knowledge and understanding of: <ol> <li>the fundamental concepts of biology and their application to zoological systems.</li> <li>the main taxa of animals.</li> <li>the study of different aspects of zoology as applied to a variety of taxa (systems approach).</li> <li>statistics as applied to biological data.</li> <li>a selection of more specialised optional topics.</li> </ol> </li> </ul>	A.Teaching/learning methods and strategiesFormal lectures and practicals supported by tutorials (Part 1), group work and miniprojects.Both laboratory and field work/ecology exercises (including residential field courses), the latter dealing with ecosystems found both in SE England, elsewhere in the UK/Europe, and possibly further afield.I.2.Assessment Most knowledge is tested through a combination of coursework and unseen formal examinations. Dissertations, oral and poster presentations also contribute.

# Knowledge and Understanding

### Skills and other attributes





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.