

Programme Specification

BSc Zoology

For students entering Part 1 in September 2024

UCAS Code: C300

UFZOOL

UFZOOLPX

This document sets out key information about your Programme and forms part of your Terms and Conditions with the University of Reading.

Awarding Institution	University of Reading
Teaching Institution	University of Reading
Length of Programme	3 years
Length of Programme with placement/year abroad	BSc Zoology with Professional Experience - 4 years (UCAS Code: C302)
Accreditation	Royal Society of Biology
QAA Subject Benchmarking Group	QAA Subject Benchmark Statement - Biosciences

Programme information and content

The BSc Zoology degree is a fully accredited programme that has been designed to provide you with the essential skills and knowledge in animal taxa to become a professional zoologist. Our approach is to provide a balance between whole organism biology, animal physiology, ecology and conservation, and cell and molecular biology, which taken together, provide you with in-depth training in the biological processes behind animal development, growth and function. Core knowledge, skills and competencies relevant to studies in zoology will be delivered within a structured framework that will guide you throughout your degree.

You will have the ability to tailor your own degree allowing you to pursue particular pathways and interests, by focusing on specific zoological and biological disciplines, through the selection of a wide range of optional modules. From day one, the development of laboratory and field skills will feature heavily as an important part of the degree structure. In the laboratory, you will gain knowledge and develop analytical skills in animal anatomy, physiology, diversity, taxonomy and cell biology. You will develop essential skills in animal ecology, behaviour and conservation in the field, either on local, national or international field trips. Taken together, these opportunities will allow you to strengthen core competencies, your professional and transferable skills, ensuring that you are well equipped to develop your career in a large array of animal-related professions and/or go on to further study.

Part 1:	In the first year, you will be provided with the scientific foundation required to be able to study zoology and will develop your intellectual and academic skills required to succeed at university-level study. In the core modules, you will be introduced to and gain fundamental knowledge in animal diversity, form and function, ecology and evolution, conservation and global change, and cellular and molecular biology. Lectures will be
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	complemented with a series of practical classes in which you will develop laboratory and field skills and learn how to collect, handle interpret and present data.
Part 2:	In the second year, you will gain a deeper understanding of comparative zoology, animal diversity and physiology and develop a set of quantitative skills essential in the analysis of zoological data. You will be given the opportunity to focus on and specialise in particular interests including animal behaviour, ecology, conservation science and/or cellular and molecular biology, allowing you to tailor your degree towards a particular career progression pathway. You will continue to enhance your practical and transferable skills, including creativity, enterprise and commercial awareness. Optional residential field courses, both national and international, will allow you to put the skills and knowledge gained in the lectures into practice, further developing core practical and transferable skills.
Placement/Study abroad year:	You will have the opportunity to undertake a placement year and discover what it is like to work in a professional setting. This will allow you to develop your skills further, expand your network and enhance your career prospects. The school has numerous contacts within and beyond the UK, ranging from ecological consultancies to local zoos/aquaria and conservation organisations. Students can express their interest to the school and receive guidance and support throughout the placement application process.
Part 3:	The third year of the programme places a strong emphasis on the application of knowledge and skills in a range of specialist options, including animal diseases, forensics, and advanced conservation biology. Alongside chosen modules from across the breadth of zoology, the highlight of the final year is the opportunity to work alongside an expert in the field on a unique research project. This capstone experience will allow you to develop an advanced understanding of your chosen topic and apply the skills that you have acquired from their first and second year. You will be encouraged to engage in critical review and evidence-based learning which will prepare you to move into the workplace or further study.

Programme Learning Outcomes - BSc Zoology

During the course of the Programme, you will have the opportunity to develop a range of skills, knowledge and attributes (known as learning outcomes) For this programme, these are:

Learning outcomes	
1	Employ and apply the methods and principles underlying taxonomy and classification to recognise and describe the major groups of animals.

2	In the context of evolutionary theory, use the evidence of comparative zoology to describe and critically evaluate the key processes and major developmental events in the lifecycle of animals and how these have shaped animal morphology, physiology, life history, and behaviour.
3	Compare, interpret and justify the principles and processes governing interactions of organisms and their environment and make evidence-based judgements of the impact of external influences on animal growth, reproduction and behaviour.
4	Effectively communicate subject-specific knowledge, concepts and research outputs to technical and non-technical audiences using a range of multimedia formats.
5	Organize and manage workload to complete tasks and projects effectively, both independently and collaboratively as part of a team.
6	Analyse experimental and observational biological data using relevant statistical tests/analytical tools and interpret the results, recognising the limitations of data collection and statistical methodology.
7	Search for, critically analyse, integrate, synthesize and evaluate scientific literature to draw conclusions, make hypotheses and suggest solutions.
8	Safely and competently use a range of practical laboratory and/or field skills and techniques to generate accurate records and robust datasets.
9	Use an evidence-based approach to propose realistic solutions for complex biological problems, recognising the nature of scientific knowledge and its development in light of continued scientific advances.

You will be expected to engage in learning activities to achieve these Programme learning outcomes. Assessment of your modules will reflect these learning outcomes and test how far you have met the requirements for your degree.

To pass the Programme, you will be required to meet the progression or accreditation and award criteria set out below.

Module information

Each part comprises 120 credits, allocated across a range of compulsory and optional modules as shown below. Compulsory modules are listed.

Part 1 Modules:

Module	Name	Credits	Level
BI1AFF1	Animal Form and Function	20	4
BI1CMP1	Cellular and Molecular Principles of Life	20	4
BI1CP1	Our Changing Planet	20	4
BI1FE2	Fundamentals of Ecology	20	4
BI1FOE2	Fundamentals of Evolution	20	4
BI1HLE2	History of Life on Earth	20	4

Part 2 Modules:

Module	Name	Credits	Level
BI2CV1	Comparative Vertebrate Biology	20	5

BI2IZ2	Invertebrate Zoology	20	5
BI2QP3	Quantitative and Professional Skills	20	5

The remaining 60 credits will be made up of optional modules from selected modules from the School of Biological Sciences or modules from an approved list, subject to timetabling constraints.

Modules during a placement year or study year (if applicable):

Module	Name	Credits	Level
BI2PEX	Professional Experience	120	5

Students may be permitted to undertake a placement year between Part 2 and Part 3 of the programme. In such cases students will transfer to a 4-year programme. The placement year should not normally be shorter than nine months full-time.

If you take a year-long placement or study abroad, Part 3 as described below may be subject to variation.

Part 3 Modules:

Module	Name	Credits	Level
BI3RP3	Research Project	40	6

The remaining 80 credits will be made up of optional modules from selected modules from the School of Biological Sciences or modules from an approved list, subject to timetabling constraints.

Placement opportunities

Placements:

You may be provided with the opportunity to undertake a credit-bearing placement as part of your Programme. This will form all or part of an optional module. You will be required to find and secure a placement opportunity, with the support of the University

Study Abroad:

You may be provided with the opportunity to undertake a Study Abroad placement during your Programme. This is subject to you meeting academic conditions detailed in the Programme Handbook, including obtaining the relevant permissions from your School, and the availability of a suitable Study Abroad placement. If you undertake a Study Abroad placement, further arrangements will be discussed and agreed with you.

Optional modules:

The optional modules available can vary from year to year. An indicative list of the range of optional modules for your programme can be found online in the Course Catalogue. Details of optional modules for each part, including any additional costs associated with the optional modules, will be made available to you prior to the beginning of the Part in which they are to be taken and you will be given an opportunity to express interest in the optional modules that you would like to take. Entry to optional modules will be at the discretion of the University and subject to availability and may be subject to pre-requisites, such as completion of another module. Although the University tries to ensure you are able to take the optional modules in which you have expressed interest this cannot be guaranteed.

Teaching and learning delivery:

You will be taught through lectures, seminars/tutorials, laboratory- and field-based practical sessions and supervised project work, depending on the modules you choose. Elements of your programme will be delivered via digital technology.

The contact hours for your Programme are dependent on module choice - the scheduled teaching and learning activity hours and amount of technology enhanced learning activity for your programme will depend upon your module combination. In addition, you will undertake some self-scheduled teaching and learning activities, designed by and/or involving staff, which give some flexibility for you to choose when to complete them. You will also be expected to undertake guided independent study. Information about module study hours including contact hours and the amount of independent study which a student is normally expected to undertake for a module is indicated in the relevant module description.

Accreditation details

This programme is accredited by the Royal Society of Biology

Assessment

The programme will be assessed through a combination of written examinations, coursework (including class tests) and oral examinations. Further information is contained in the individual module descriptions.

Progression*Part 1*

To achieve a threshold performance at Part 1, a student will normally be required to:

- (i) Obtain an overall average of 40% over 120 credits taken in Part 1;
- (ii) Obtain a mark of at least 40% in individual modules amounting to not less than 80 credits taken in Part 1; and
- (iii) Obtain marks of at least 30% in modules amounting to 120 credits.

In order to progress from Part 1 to Part 2, a student must achieve a threshold performance.

The achievement of a threshold performance at Part 1 qualifies a student for a Certificate of Higher Education if they leave the University before completing the subsequent Part.

Transferring from a Joint Honours to a Single Honours programme

Students are able to transfer from a Joint Honours to a Single Honours programme in one of their joint subject areas at the end of Part 1, subject to fulfilling the Part 1 University Threshold Standard, achieving marks of at least 40% in at least 40 credits of modules in the subject to which they wish to transfer, and fulfilling any programme-specific progression rules for the Part 1 Single Honours Programme to which they wish to transfer.

Students who transfer from a Joint Honours to a Single Honours programme may not have taken all of the Part 1 modules listed in the Single Honours Programme Specification. The modules which they have taken will be shown on their Diploma Supplement.

Part 2

To achieve a threshold performance at Part 2, a student shall normally be required to:

- (i) Obtain a weighted average of 40% over 120 credits taken in Part 2; and
- (ii) Obtain marks of at least 40% in individual modules amounting to at least 80 credits taken in Part 2; and
- (iii) Obtain marks of at least 30% in individual modules amounting to at least 120 credits, except that a mark below 30% may be condoned in no more than 20 credits of modules owned by the Department of Mathematics and Statistics.

In order to progress from Part 2 to Part 3, a student must achieve a threshold performance.

The achievement of a threshold performance at Part 2 qualifies a student for a Diploma of Higher Education if they leave the University before completing the subsequent Part.

Professional/placement year

Students are required to pass the professional placement year/study abroad year in order to progress on the programme which incorporates the professional placement year/study abroad year. Students who fail the professional placement year/study abroad year transfer to the non-placement year version of the programme.

In order to be eligible for the BSc Biochemistry with Foundation, students must meet the requirements described in Section 17 of the Assessment Handbook Bachelor's (for cohorts entering in 2022/23 and onwards) (see, in particular, section 17.5); and

- (i) must gain a mark of at least 40% in BI3RP3.

Classification

Bachelors' degrees

The University's honours classification scheme is based on the following:

Mark Interpretation

70% - 100% First class

60% - 69% Upper Second class

50% - 59% Lower Second class

40% - 49% Third class

35% - 39% Below Honours Standard

0% - 34% Fail

The weighting of the Parts/Years in the calculation of the degree classification is:

Three year programmes:

Part 2: one-third

Part 3: two-thirds

Four year programmes, including study abroad

Part 2: one-third

Study abroad: Year abroad not included in the classification

Part 3: two-thirds

The classification method is given in detail in:

Bachelor's (for cohorts entering in 2022/23 and onwards) (see, in particular, section 17.5)

Additional costs of the programme

Participation in any residential field based optional modules offered, is subject to fees payable by the student.

If you undertake a Placement Year, associated costs will vary according to the nature and location of the placement and/or the study abroad host institution, and individual travel and subsistence arrangements.

Costs are indicative and may vary according to optional modules chosen and are subject to inflation and other price fluctuations. Estimates were calculated in 2023.

For further information about your Programme please refer to the Programme Handbook and the relevant module descriptions, which are available at <http://www.reading.ac.uk/module/>. The Programme Handbook and the relevant module descriptions do not form part of your Terms and Conditions with the University of Reading.

BSc Zoology for students entering Part 1 in session 2024/25

4 July 2023

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