

## Programme Specification

### BSc Animal Science with Foundation

For students entering Foundation year in September 2021

UCAS Code: D321

UFANSCFY

**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	4 years
Length of Programme with placement/year abroad	
Accreditation	N/A

#### **Programme information and content**

Animal Scientists have vital roles to play in tackling a range of societal problems, from ensuring future food security to the optimal health and welfare of domestic and captive animals. This Programme aims to provide you with a thorough degree-level education in Animal Science, leading to a sound knowledge base in biology as a whole, underpinning knowledge of more specialised areas of applied biology relating to human use of animals for food production, companionship and leisure.

At Reading you will benefit from access to laboratories and our large animal research facility for project work, alongside more traditional teaching methods, such as lectures and seminars. Additionally, where possible, we utilise links with external animal facilities including zoos and colleges for field work. We also work closely with the University's School of Biological Sciences who provide expertise in core subjects such as biochemistry, cell biology and microbiology as well as in optional areas of interest such as ecology and conservation.

We facilitate professional development and enhance employability of our students through, for example, opportunities to work in teams as well as developing independence, and building communication skills using a range of media and for a range of audiences. Professional attributes are further enriched if a placement year is undertaken.

Our courses equip you with knowledge and numerical, laboratory and research skills useful for a wide range of animal based careers

Foundation year:	The Foundation Year provides you with the scientific background required to succeed on the subsequent years of the course. You will acquire a broad foundation in two of the following modules: Chemistry, Biology or Environment, Ecology and Sustainability. You will also take courses on mathematics and academic skills. These modules will equip you with the skills necessary to excel at University. The goal of the Foundation Year is to provide each student with basic core knowledge suitable for your chosen pathway and the confidence of transitioning to Higher Education.
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Part 1:	Introduces the key biological sciences underpinning animal science, including cell biology, biochemistry, physiology, microbiology and the principles of nutrition. In addition, some key skills in scientific research are developed and the diversity of the field of animal science is introduced.
Part 2:	Provides you with the opportunity to apply and expand on knowledge gained in Part 1 through study of a range of specialised animal science disciplines applied primarily to productive and companion animals. These will usually include animal nutrition, health, growth, reproduction, lactation and management. Key skills in scientific research, experimentation and data analysis are further developed.
Part 3:	Gives you the opportunity to undertake an individual research project and enables further specialised knowledge to be developed via optional module selection.

### Module information

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

#### Foundation modules:

Module	Name	Credits	Level
BI0BF1	Foundation Programme: Biology	40	0
BI0MF1	Mathematics Foundation	20	0
IF0RAS	Foundation in Academic Skills	20	0

#### \*A-level Chemistry at D or below pathway:

Students entering Animal Science with Foundation without A level Chemistry or with A-level Chemistry (or a suitable equivalent) at grade D or below, are required to take the CHO CHE Chemistry module.

#### \*A-level Chemistry at C or above pathway:

Students entering Animal Science with Foundation with A-level Chemistry or a suitable equivalent at grade C or above are not required to take the CHO CHE Chemistry module. Students instead may select AP0AE1 Environment, Ecology and Sustainability.

International Students take IF0ACA (Academic Skills), in place of IF0RAS (Foundation in Academic Skills), as IF0ACA is specifically targeted to the needs of international students.

#### Part 1 Modules:

Module	Name	Credits	Level
AP1A18	Digestion and Nutrition	10	4
AP1A26	Animal Science In Practice 1	20	4
AP1A27	Introductory Physiology	20	4
BI1BEC1	Building Blocks of Life	20	4
BI1MB2	Metabolic Biochemistry	10	4

BI1S1	Introductory Microbiology	10	4
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You must take CH1FC1 Fundamental Concepts in Chemistry 1 (10 credits) if you have not achieved a minimum grade C in A level Chemistry or suitable equivalent or taken CH0CHE (as part of the foundation year).

Your remaining credits will be made up of optional modules from selected modules from the School of Agriculture, Policy and Development and the School of Biological Sciences, subject to Programme Director approval and timetabling constraints. Students also have the option to select a language module.

**Part 2 Modules:**

Module	Name	Credits	Level
AP2A35	Animal Health and Disease	10	5
AP2A50	Animal Growth, Lactation and Reproduction	10	5
AP2A63	Animal Science in Practice 2	20	5
AP2A67	Animal Nutrition	20	5
AP2A68	Mini Work Placement and Professional Development for Animal Scientists	10	5
AP2A71	Experimental Design and Data Analysis	10	5

Your remaining credits will be made up of optional modules from selected modules from the School of Agriculture, Policy and Development and the School of Biological Sciences, subject to Programme Director approval and timetabling constraints. Students also have the option to select a language module.

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

If you are undertaking a year-long placement:

Module Code	Name	Credits	Level
AP2PP1	Professional Placement	120	5
<b>Or</b>			
AP2SA3*	Professional Placement with Study Abroad Experience	120	5
<b>Or</b>			
AP2SA1*	Study Abroad Year	120	5

As part of the Placement Year, students have the option to take either a full year (minimum of 40 weeks) in full time employment or, with approval from the module convenor and programme director, a shorter work placement (minimum of 20 weeks) combined with a study abroad semester. Students can also select a full year of study abroad. **\*Students will only be eligible for AP2SA3 and AP2SA1 if they meet the criteria and if places are available in overseas institutions – places are not guaranteed.**

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
AP3A110	Independent Research Project	40	6
AP3A67	Animal Welfare	10	6

Your remaining credits will be made up of optional modules from selected modules mainly from the School of Agriculture, Policy and Development and the School of Biological Sciences, subject to Programme Director approval and timetabling constraints.

**Optional modules:**

The optional modules available can vary from year to year. An indicative list of the range of optional modules for your Programme is set out in the Further Programme Information. 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.

**Additional costs of the programme**

You should ensure that you bring with you to University a pair of wellington boots (£15) and/or sturdy footwear e.g. walking boots (£50 – 100) for field work (should you need to purchase these, approximate costs are in brackets). You will also require a laboratory coat which you can bring with you or purchase from the University when you arrive (£12).

Participation in any residential field based optional modules offered, is subject to fees payable by the student. Where available, the estimated cost of the Captive Animal Management module (one week residential field trip to Jersey) is £600.

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, but will vary according to module choice and are subject to inflation and other price fluctuations. The estimates were calculated in 2020.

**Placement opportunities**

If you take the 4 year degree with Placement Year, you are required to undertake a compulsory placement as part of your Programme (see section above on Placement). You will be supported in finding this placement.

All students will be required to undertake a credit-bearing mini placement as part of your Programme. This will form all or part of a compulsory module. You will be required to find and secure a placement opportunity, with the support of the University.

You may have the opportunity to undertake a Study Abroad/Placement Year 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.

### **Teaching and learning delivery:**

You will be taught through lectures, seminars/tutorials, laboratory and field practicals and supervised project work. The contact hours for your Programme are dependent on module choice but will normally be approximately 400 hours in Part 0, 300-330 hours in Part 1, 250-280 hours in Part 2 and 200 - 230 hours in Part 3. Information about module contact hours can be located in the relevant module description.

### **Accreditation details**

N/A

### **Assessment**

The programme will be assessed through a combination of written examinations and coursework, assessed via a range of methods.

### **Progression**

Part 0 (Foundation Year)

To gain an overall threshold performance at Part 0 a student shall normally be required to:

- (i) an overall average of at least 40% over all modules taken in Part 0;
- (ii) no more than 40 credits of these modules with a mark below 35%
- (iii) at least 40% in the Academic Skills module (IF0RAS or IF0ACA)

In order to progress from Part 0 to Part 1 of this programme, a student must achieve a threshold performance; and

- (iv) at least 55% in each of two 40 credit modules, BI0BF1 Biology and either AP0AE1 Environment, Ecology and Sustainability or CH0CHE Chemistry
- (v) an average of at least 40% in the remaining two modules

(vi) at least 40% in the Academic Skills module (IFORAS or IF0ACA)

(vii) no module mark below 35%

The achievement of a threshold performance at Part 0 qualifies a student for a Certificate of Completion if he or she leaves the University before completing the subsequent Part.

#### Part 1

To gain a threshold performance at Part 1 a student shall normally be required to

- (i) Obtain an overall average of 40% over 120 credits taken in Part 1; and
- (ii) Obtain a mark of at least 30% in individual modules amounting to not less than 100 credits taken in Part 1; and

**In order to progress from Part 1 to Part 2 of this programme**, a student shall normally be required to achieve a threshold performance at Part 1 and achieve a credit weighted average mark of not less than 40% over the compulsory modules and a mark of not less than 30% in each compulsory module.

If you gain a threshold performance at Part 1 and do not proceed to achieve a higher award, you are eligible to receive the award of Certificate of Higher Education. The Part 1 Examination does not contribute to the classification of your degree.

#### Part 2

The Part 2 examination is used to assess a student's suitability to proceed to Part 3 of their programme. It also determines eligibility for the Diploma of Higher Education.

In addition, the marks achieved in the Part 2 Examination contribute to the classification of your degree.

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

- (i) A weighted average of 40% over 120 credits taken at Part 2; and
- (ii) Marks of at least 40% in individual modules amounting to not less than 80 credits; and

(iii) Marks of at least 30% in individual modules amounting to not less than 120 credits.

In order to progress from Part 2 to Part 3, student must achieve a threshold performance at Part 2. If you gain a threshold performance at Part 2 and do not proceed to achieve a higher award, you are eligible to receive the award of Diploma of Higher Education.

**Placement Year/Year Abroad (or combination thereof)**

Students are required to pass their year out in order to progress on the programme which incorporates the placement year, study abroad year or combination thereof.

Students who fail the placement year transfer to the non-placement year version of the programme.

**Classification**

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 placement year or study abroad:**

Normally:

Part 2 one-third

Placement Year not included in classification

Part 3 two-thirds

(Where a student fails a placement year or study abroad year, which does not contribute to classification they transfer to the three-year version of the programme)

**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 Animal Science with Foundation for students entering Foundation year in session 2021/22

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