

## Programme Specification

### BSc Biological Sciences with Foundation

For students entering Foundation year in September 2025

UCAS Code: C102

UFBIOLFY

**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	Royal Society of Biology
QAA Subject Benchmarking Group	QAA Subject Benchmark Statement - Biosciences

### Programme information and content

The BSc Biological Sciences with Foundation degree is a flexible, accredited programme that is designed to provide you with the opportunity to explore the full breadth and depth of biology, whilst being exposed to the latest advances in research/practical techniques. You will be able to broaden your horizons, cross the traditional disciplinary boundaries and take a multifaceted approach to understand and solve some of the world's biggest challenges.

From day one, you will explore the diversity of life and understand the underlying biochemical, evolutionary and cellular processes that makes life possible. You can choose to focus on your favourite areas of biology through a wide range of optional modules. This will give you the option to either maintain breadth, or specialise in specific areas ranging from molecular medicine to conservation biology. You will also be able to consolidate your knowledge and choose from a variety of applied and interdisciplinary modules in your final year. Experiential learning is at the heart of this programme. You will be immersed in a variety of laboratory-based practicals and field work (both at home and abroad) which will culminate in a final year research project. You will also be strengthening your core competencies and professional/employability skills, with opportunities to do so embedded throughout the programme, ranging from the completion of a skills portfolio, access to placement opportunities and employer-led sessions.

Foundation year:	The Foundation Year will provide you with the scientific background required to succeed on the subsequent years of the course. You will acquire a broad foundation in Biology, Mathematics and Chemistry. Additionally, our Academic Skills module will give you all the skills necessary to excel at university. The goal of Year 0 is to provide you with basic core knowledge suitable for your chosen pathway and the confidence of transitioning to higher education.
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Part 1:	You will gain a broad introduction to biological sciences in your first year. This will be delivered in the form of core modules, covering the fundamental aspects of biology including evolution, molecular biology, cell biology, genetics, physiology and organismal diversity. You will also be taught essential laboratory/field skills, data handling/interpretation and other key transferable skills (e.g. communication, academic integrity, teamwork). The goal of the first year is to give you a strong foundation on which to develop your interests and build your future studies.
Part 2:	The second year will offer you the opportunity to pursue your interests in greater depth and/or specialise across a series of optional modules. These modules will provide advanced knowledge in various areas of biology, including conservation, ecology, molecular biology, biochemistry and microbiology. You will continue to enhance your practical and transferrable skills, including creativity, enterprise and commercial awareness. You can also develop your field skills and broaden your horizons by participating in a field course at home or abroad (where applicable).
Placement/Study abroad year:	Students may be permitted to transfer to a programme with Study Abroad / Placement Year.
Part 3:	The third year of the programme places a strong emphasis on the application of knowledge and skills. Alongside chosen modules from across the breadth of biology, 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 your earlier years. This will allow you to further develop your personal and professional identity as a biologist.

### **Programme Learning Outcomes - BSc Biological Sciences with Foundation**

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:

<b>Learning outcomes</b>	
1	Demonstrate a broad understanding of Biological Sciences, together with specialised in-depth knowledge in more specialised fields, particularly at the molecular and/or organism level
2	Apply an interdisciplinary and multidisciplinary approach in advancing knowledge and understanding the complexity and diversity of life through to the study of organisms, their molecular, cellular and physiological processes, their genetics and evolution and the interrelationships between them and their environment

3	Identify and discuss the essential facts, major concepts, paradigms, principles and/or theories associated with Biological Sciences
4	Recognise the current developments in Biological Sciences and discuss their applications, contributions to policy, controversies and other debates
5	Effectively communicate subject-specific knowledge, concepts and research outputs to technical and non-technical audiences using a range of multimedia formats.
6	Analyse experimental and observational biological data using relevant statistical tests/analytical tools and interpret the results, recognising the limitation of data collection and statistical methodology
7	Organise and manage workload to complete tasks and projects effectively, both independently and collaboratively as part of a team
8	Search for, critically analyse, integrate, synthesise and evaluate scientific literature to draw conclusions, make hypotheses and suggest solutions
9	Safely and competently use a range of practical laboratory and/or field skills and techniques to generate accurate records and robust datasets
10	Use a creative, innovative and evidence-based approach to propose realistic solutions for complex biological and real-world problems 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.

In addition to the learning outcomes stated above if you are on a placement or study abroad programme you will have the opportunity to develop the following learning outcome:

<b>Additional Learning outcomes</b>
N/A

### 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
CH0CHE	Chemistry	40	0
IF0RAS	Foundation in Academic Skills	20	0

International Students will need to select 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
BI1AP3	Anatomy and Physiology	20	4
BI1CMP1	Cellular and Molecular Principles of Life	20	4
BI1FM1	Fundamentals of Microbiology	20	4
BI1FOE2	Fundamentals of Evolution	20	4
BI1HLE2	History of Life on Earth	20	4

Students will need to choose between BI1FB2 Fundamentals of Biochemistry or BI1FE2 Fundamentals of Ecology to achieve a total of 120 credits.

**Part 2 Modules:**

Module	Name	Credits	Level
BI2CM1	Advanced Studies in Cellular and Molecular Biology	20	5

Students will need to choose between the compulsory BI2RP3 Research and Professional Skills or BI2QP3 Quantitative and Professional Skills

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.

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
BI3VP1	Venoms and Poisons: from Pharmacology to Therapeutics	20	6

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.

**Placement opportunities**

N/A

**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.

The contact hours for your Programme are dependent on module choice. Information about module contact hours can be located in the relevant module description.

Elements of your programme will be delivered via digital technology.

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***Foundation Year*

The University-wide rules relating to 'threshold performance' as follows

(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

BSc Biological Science with Foundation Specific Progression Requirements above Threshold.

In order to progress from Part 0 to Part 1 and be eligible for transfer to BSc Biological Science, a student must achieve a threshold performance; and

(i) at least 40% in both the 20 credit Academic Skills (one of IF0RAS, IF0ACA) and 20 credit subject skills (one of BIOMF1, PY0FIR, EN0SFS, PMOPHS) modules;

and achieve the following in the remaining 80-credits

(i) at least 55% in BI0BF1 Foundation Programme: Biology;

(ii) at least 50% in all modules

The achievement of a threshold performance at Foundation Year qualifies a student for a Certificate of Completion if they leave the University before completing the subsequent Part.

### *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.

In order to be eligible for the BSc Biological Sciences 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 2024.

**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 Biological Sciences with Foundation for students entering Foundation year in session 2025/26

16 July 2024

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