Programme Specification (Undergraduate)

FOR ENTRY YEAR: 2022/23

Date created: n/a **Last amended:** 06/03/2025 **Version no.** 3

1. Programme title(s) and UCAS code(s):

BSc Biological Sciences C100
BSc Biological Sciences (Biochemistry) C700
BSc Biological Sciences (Genetics) C400
BSc Biological Sciences (Microbiology) C500
BSc Biological Sciences (Physiology with Pharmacology) B1B2
BSc Biological Sciences (Zoology) C300
BSc Biological Sciences (Neuroscience) - B140
BSc Biosciences*
BSc Biosciences (Biochemistry)*
BSc Biosciences (Genetics)*
BSc Biosciences (Microbiology)*
BSc Biosciences (Physiology with Pharmacology) *
BSc Biosciences (Zoology)*
BSc Biosciences (Neuroscience)*

* An award marked with an asterisk is only available as an exit award and is not available for students to register onto.

With optional Year in Industry or Year Abroad (in Europe, USA or Japan)

2. Awarding body or institution:

University of Leicester

3. a) Mode of study: Full time
b) Type of study: Campus-based

4. Registration periods:

The normal period of registration is three years (four years for degrees 'with a year in industry/abroad')

The maximum period of registration is five years (six years for degrees 'with a year in industry/abroad')

5. Typical entry requirements:

A-levels: typical offer AAB/ABB, normally including at least two relevant science subjects from Biology (preferred), Chemistry, Physics or Maths.

EPQ with A-levels: typical offer BBB + EPQ at grade B. A-level subjects to include two relevant science subjects from Biology (preferred), Chemistry, Physics or Maths. General Studies not accepted.

GCSE: At least Grade C in both English Language and Maths (if not held at A-level)

Access to HE Diploma: Pass relevant diploma with 45 credits at level three, with distinctions in some subjects.

International Baccalaureate: Pass Diploma with 32/30 points, including at least two relevant science subjects at Grade 6 at higher level.

BTEC Nationals: Pass relevant Diploma with DDD plus five GCSEs at B or above including two relevant sciences.

For the aims, learning outcomes and application criteria for the GCSA Year Abroad please see https://le.ac.uk/study/undergraduates/courses/abroad

6. Accreditation of Prior Learning:

Direct 2nd year entry is considered subject to completion of a level 4 programme of comparable content to those studies in year 1 of this programme, passing all modules and with a year mark of at least 65%.

7. Programme aims:

The programme aims to provide:

• a flexible teaching and learning programme of high quality that is informed by an active research environment in which students develop their own interests

• a stimulating and supportive working environment;

• an education that will enable graduates to follow a variety of careers including higher degrees and research;

and to enable students to:

• have a broad appreciation of biological sciences or of biomedical and related disciplines with an emphasis on human health and disease, and advanced knowledge of one or more areas including appreciation of aspects of the underpinning research;

• develop a range of skills including practical and transferable skills;

• gain experience, within the 4 year Industry/abroad options, by working in in an external research laboratory or an American, Japanese or another European University.

8. Reference points used to inform the programme specification:

- QAA Benchmarking Statement
- University of Leicester Learning and Teaching Strategy 2016-2020
- University of Leicester Periodic Developmental Review Report
- External Examiners' reports (annual)

9. Programme Outcomes:

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
(a) Discipline specific knowledge and competencies		
(i) Mastery of an appropriate body of knowledge		
Demonstrate an awareness of main principles of biological sciences, biomedical sciences and related disciplines and explain core concepts of their chosen discipline. Describe current areas of advance in their chosen specialisation(s).	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination, coursework (e.g. practical reports, written reports, data analysis, field reports, oral presentations, group reports, video production, poster production, dissertation)
(ii) Understanding and application of key concepts and techniques		
Describe and apply safely appropriate experimental procedures in biological sciences, biomedical sciences and related disciplines. Apply a scientific approach to the solution of problems in the context of their chosen specializations and appreciate the rationale of experimental design. Explain core concepts of their chosen discipline.	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
(iii) Critical analysis of key issues		
Demonstrate a capacity for critical scientific analysis of issues in the context of biological sciences, biomedical sciences and related disciplines	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework
(iv) Clear and concise presentation of material		
Communicate orally and in writing concepts and arguments in biological Sciences, biomedical sciences and related disciplines.	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework
(v) Critical appraisal of evidence with appropriate insight		
Demonstrate the capacity to analyse and criticise evidence from both experimental procedures and the literature.	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework
(vi) Other discipline specific competencies		
In the year in industry/abroad programmes, demonstrate the capacity to work in an industrial or other research laboratory or study in another European, American or Japanese University.	Laboratory work, research project	Research report, practical reports.
(b) Transferable skills		
(i) Oral communication		
Communicate orally, with clarity and coherence, concepts and arguments in biological sciences, biomedical sciences and related disciplines.	Tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work.	Oral presentations, group reports, tutorials.

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
(ii) Written communication		
Communicate in writing, with clarity and coherence, concepts and arguments in biological sciences, biomedical sciences and related disciplines.	Tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work.	Examination and coursework
(iii) Information technology		
Demonstrate the effective use of IT for accessing databases and scientific literature; manipulating, processing and presenting data; presenting written assignments.	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework
(iv) Numeracy		
Understand and manipulate numerical data, solve problems using a variety of methods and apply numerical and statistical techniques to data analysis.	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework
(v) Team working		
Demonstrate the ability to work as part of a group	Tutorials, group work, research projects.	Group reports, use of class data to generate practical reports
(vi) Problem solving		
Apply a scientific approach to the solution of problems in the context of their chosen specialisations and appreciate the rationale of experimental design.	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework

Intended Learning Outcomes	Teaching and Learning Methods	How Demonstrated?
(vii) Information handling		
Demonstrate the capacity to access a variety of resource materials and to analyse evidence from both experimental procedures and the literature.	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework
(viii) Skills for lifelong learning		
Demonstrate the acquisition of the skills and attributes necessary for lifelong learning, including: intellectual independence, effective time management, the ability to work as part of a team, the use of IT and the capacity to access and utilise a variety of resource materials.	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, private study, career development programme.	Examination, coursework, personal development planning.

10. Progression points:

In cases where a student has failed to meet a requirement to progress he or she will be required to withdraw from the course.

The programme follows the standard scheme of progression set out in Senate Regulation 5 with the following additional requirements.

The Board of Examiners reserves the right to determine the progression of students who carry failed credits but have the right to a further resit: where these credits are in modules that are pre-requisite for subsequent modules or where the student has a low overall level of attainment, the Board can require the student to resit the failed modules without residence rather than proceed to the next year carrying failed modules to be resat alongside the current modules.

In cases where a student has failed to meet a requirement to progress he or she will be required to withdraw from the course

11. Scheme of Assessment

This programme follows the standard scheme of undergraduate award and classification set out in Senate Regulations – see the version of *Senate Regulation 5 governing undergraduate programmes* relevant to the year of entry with the following approved exception:

To gain the Royal Society of Biology accredited degree of BSc Biological Sciences (with/without specialisms) students must pass the project module/s (BS3101/2, BS3201, BS3301/3302) with a mark of 40.00% or higher. Students who meet all other progression and awarding regulations but fail to meet this accreditation requirement may be awarded a non-accredited degree in Biosciences with/without relevant specialism.

12. Special features:

Students receive a broad education in biological sciences, biomedical sciences and related disciplines in the first year, along with training in key skills. As the course progresses into the second and third years the students have the flexibility to specialise progressively within the specified subject streams or to retain a broader perspective. Opportunities are available to take placements within related industries, or to study in other European, American or Japanese universities. The School has a strong reputation for research and the range of staff expertise enables provision of research-led programmes that offer breadth and depth.

The number of students who can attend the BS2033 trip is limited to 20 students. Priority will be given in the first instance to students who are taking at least two of the following modules: BS2030, BS2032 and MB2020. If there are further vacancies, the trip will be opened to other students and selection will take place on a first come, first served basis.

13. Indications of programme quality

External examiner evaluations.

14. External Examiner(s) reports

The details of the External Examiner(s) for this programme and the most recent External Examiners' reports for this programme can be found at exampapers@Leicester [log-in required]

Appendix 1: Programme structure (programme regulations)

Appendix 2: Module specifications

See module specification database [log in required]

Appendix 3: Skills matrix

Appendix 1: Level 4, 5 and 6 programme structure (programme regulations)

Updates to the programme

Year and stream affected	Module	Update
2023/24 Biological Sciences (Microbiology)	MB2020 Medical Microbiology	Was optional, now core.
2024/25 Biological Sciences (Microbiology)	BS3068 Microbial Biotechnology	Was core, now optional. But must choose three or four modules from BS3011, BS3015, BS3013 and BS3068.

BSc Biological Sciences

Year 1

Semester 1

BS1030 The Molecules of Life – An Introduction to Biochemistry and Molecular Biology (30)

BS1040 The Cell - An Introduction to Microbiology & Cell Biology (30)

Semester 2

BS1050 From Individuals to Populations - An Introduction to Genetics (15)

BS1060 Multicellular Organisation - An Introduction to Physiology, Pharmacology and Neuroscience (30)

BS1070 Biodiversity & Behaviour - An Introduction to Zoology (15)

Year 2

Semester 1

Core module:

BS2000 Research Topic (15)

For semester 1, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2009 Genomes (15)

BS2013 Physiology and Pharmacology (15)

BS2015 Physiology of Excitable Cells (15)

BS2030 Principles of Microbiology (15)

BS2092 Molecular and Cell Biology (15)

BS2059 Global Change Biology and Conservation (15)

MB2020 Medical Microbiology (15)

Semester total: 60 credits

Semester 2 For semester 2, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2004 Contemporary Techniques in Biological Data Analysis (15)

BS2014 Exercise Physiology and Pharmacology (15)

BS2026 Genes, Development & Inheritance (15)

BS2032 Immunology and Eukaryotic Microbiology (15)

BS2033 Immunology and Eukaryotic Microbiology (with Science Enterprise Trip) (15)

BS2040 Bioinformatics (15)

BS2066 Behavioural Neurobiology (15)

BS2077 Neurobiology & Animal Behaviour (15)

BS2078 A Field Guide to Evolution (15)

BS2091 Biochemistry of Nucleic Acids (15)

BS2093 Protein Control in Cellular Regulation (15)

Semester total: 60 credits

With a Year in Industry (option)

Core module:

BS3400 Year in Industry Research Placement (0) (Year-long)

Credit breakdown

Students taking an Experimental or Education project:

Status	Year long	Semester 1	Semester 2
Core	30 credits	15 credits	n/a
Optional	n/a	30 credits	45 credits

120 credits in total

Students taking an Analytical project:

Status	Year long	Semester 1	Semester 2
Core	n/a	30 credits	n/a
Optional	n/a	30 credits	60 credits

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS3101	Experimental Research Project A AND	15 credits
Year long	BS3102	Experimental Research Project B OR	30 credits
Sem 1	BS3201	Analytical Research Project OR	30 credits
Sem 1	BS3301	Education Research Project A AND	15 credits
Year long	BS3302	Education Research Project B	30 credits

Notes

Students choose ONE project type from the above options. Research projects are worth 30 or 45 credits in total depending on type.

BSc Biological Sciences (Biochemistry)

Year 1

Semester 1

BS1030 The Molecules of Life – An Introduction to Biochemistry and Molecular Biology (30)

BS1040 The Cell - An Introduction to Microbiology & Cell Biology (30)

Semester 2

BS1050 From Individuals to Populations - An Introduction to Genetics (15)

BS1060 Multicellular Organisation - An Introduction to Physiology, Pharmacology and Neuroscience (30)

BS1070 Biodiversity & Behaviour - An Introduction to Zoology (15)

Year 2

Semester 1

Core modules:

BS2000 Research Topic (15)

BS2092 Molecular and Cell Biology (15)

For semester 1, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2009 Genomes (15)

BS2013 Physiology and Pharmacology (15)

BS2015 Physiology of Excitable Cells (15)

BS2030 Principles of Microbiology (15)

BS2059 Global Change Biology and Conservation (15)MB2020 Medical Microbiology (15)

Semester total: 60 credits

Semester 2

Core module:

BS2091 Biochemistry of Nucleic Acids (15)

Choose ONE or TWO modules from:

BS2040Bioinformatics (15)

BS2093 Protein Control in Cellular Regulation (15)

For semester 2, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2004 Contemporary Techniques in Biological Data Analysis (15)

BS2014 Exercise Physiology and Pharmacology (15)

BS2026 Genes, Development & Inheritance (15)

BS2032 Immunology and Eukaryotic Microbiology (15)

BS2033 Immunology and Eukaryotic Microbiology (with Science Enterprise Trip) (15)

BS2066 Behavioural Neurobiology (15)

BS2077 Neurobiology & Animal Behaviour (15)

BS2078 A Field Guide to Evolution (15)

Semester total: 60 credits

With a Year in Industry

Core module:

BS3400 Year in Industry Research Placement (0) (Year-long)

Year 3

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS3101	Experimental Research Project A AND	15 credits
Year long	BS3102	Experimental Research Project B OR	30 credits
Sem 1	BS3201	Analytical Research Project OR	30 credits
Sem 1	BS3301	Education Research Project A AND	15 credits
Year long	BS3302	Education Research Project B	30 credits
Sem 1	BS3010	Gene Expression: Molecular Basis and Medical Relevance	15 credits
Sem 1	BS3070	Structural Biology	15 credits
Sem 2	BS3003	Cancer Cell and Molecular Biology	15 credits

Notes
Students choose ONE project type from the above project options. Research projects are worth 30 or 45 credits in total depending on type.

BSc Biological Sciences (Genetics)

Year 1

Semester 1

BS1030 The Molecules of Life – An Introduction to Biochemistry and Molecular Biology (30)

BS1040 The Cell - An Introduction to Microbiology & Cell Biology (30)

Semester 2

BS1050 From Individuals to Populations - An Introduction to Genetics (15)

BS1060 Multicellular Organisation - An Introduction to Physiology, Pharmacology and Neuroscience (30)

BS1070 Biodiversity & Behaviour - An Introduction to Zoology (15)

Year 2

Semester 1

Core modules:

BS2000 Research Topic (15)

BS2009 Genomes (15)

Choose ONE or TWO modules from:

Semester 1

BS2092Molecular and Cell Biology (15)

Semester 2

BS2026 Genes, Development & Inheritance (15)

Semester 1

For semester 1, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2013 Physiology and Pharmacology (15)
BS2015 Physiology of Excitable Cells (15)
BS2030 Principles of Microbiology (15)
MB2020 Medical Microbiology (15)
BS2059 Global Change Biology and Conservation (15)
Semester total: 60 credits

Semester 2

*Core modules:*BS2040 Bioinformatics (15)

Semester 2

For semester 2, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2004 Contemporary Techniques in Biological Data Analysis (15)
BS2014 Exercise Physiology and Pharmacology (15)
BS2032 Immunology and Eukaryotic Microbiology (15)
BS2033 Immunology and Eukaryotic Microbiology (with Science Enterprise Trip) (15)
BS2066 Behavioural Neurobiology (15)
BS2077 Neurobiology & Animal Behaviour (15)
BS2078 A Field Guide to Evolution (15)
BS2091 Biochemistry of Nucleic Acids (15)
BS2093 Protein Control in Cellular Regulation (15)
Semester total: 60 credits

With a Year in Industry

Core module:

BS3400 Year in Industry Research Placement (0) (Year-long)

Year 3

Core modules

Delivery period	**Code**	**Title**	**Credits**
Sem 1	BS3101	Experimental Research Project A AND	15 credits
Year long	BS3102	Experimental Research Project B OR	30 credits

Delivery period	Code	Title	Credits
Sem 1	BS3201	Analytical Research Project OR	30 credits
Sem 1	BS3301	Education Research Project A AND	15 credits
Year long	BS3302	Education Research Project B	30 credits
Sem 1	BS3000	Evolutionary Genetics	15 credits
Sem 1	BS3031	Human Genetics	15 credits

Notes

Students choose ONE project type from the above project options. Research projects are worth 30 or 45 credits in total depending on type.

BSc Biological Sciences (Microbiology)

Year 1

Semester 1

BS1030	The Molecules of Life – An Introduction to Biochemistry and Molecular Biology (30)
BS1040	The Cell - An Introduction to Microbiology & Cell Biology (30)

Semester 2

BS1050	From Individuals to Populations - An Introduction to Genetics (15)
BS1060	Multicellular Organisation - An Introduction to Physiology, Pharmacology and Neuroscience (30)
BS1070	Biodiversity & Behaviour - An Introduction to Zoology (15)

Year 2

Semester 1

Core modules:

BS2000	Research Topic (15)
BS2030	Principles of Microbiology (15)
MB2020	Medical Microbiology (15)

For semester 1, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2009	Genomes (15)
BS2013	Physiology and Pharmacology (15)
BS2015	Physiology of Excitable Cells (15)
BS2092	Molecular and Cell Biology (15)
BS2059	Global Change Biology and Conservation (15)Semester total: 60 credits

Semester 2

Core modules:

BS2032	Immunology and Eukaryotic Microbiology (15)
OR	
BS2033	Immunology and Eukaryotic Microbiology (with Science Enterprise Trip) (15)

For semester 2, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2004	Contemporary Techniques in Biological Data Analysis (15)
BS2014	Exercise Physiology and Pharmacology (15)

BS2026 Genes, Development & Inheritance (15)
BS2040 Bioinformatics (15)
BS2066 Behavioural Neurobiology (15)
BS2077 Neurobiology & Animal Behaviour (15)
BS2078 A Field Guide to Evolution (15)
BS2091 Biochemistry of Nucleic Acids (15)
BS2093 Protein Control in Cellular Regulation (15)
Semester total: 60 credits

With a Year in Industry

Core module:

BS3400 Year in Industry Research Placement (0) (Year-long)

Year 3

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS3101	Experimental Research Project A AND	15 credits
Year long	BS3102	Experimental Research Project B OR	30 credits
Sem 1	BS3201	Analytical Research Project OR	30 credits
Sem 1	BS3301	Education Research Project A AND	15 credits
Year long	BS3302	Education Research Project B	30 credits

Notes
Students choose ONE project type from the above project options. Research projects are worth 30 or 45 credits in total depending on type.

BSc Biological Sciences (Physiology with Pharmacology)

Year 1

Semester 1

BS1030 The Molecules of Life – An Introduction to Biochemistry and Molecular Biology (30)

BS1040 The Cell - An Introduction to Microbiology & Cell Biology (30)

Semester 2

BS1050 From Individuals to Populations - An Introduction to Genetics (15)

BS1060 Multicellular Organisation - An Introduction to Physiology, Pharmacology and Neuroscience (30)

BS1070 Biodiversity & Behaviour - An Introduction to Zoology (15)

Year 2

Semester 1

Core modules:

BS2000 Research Topic (15)

BS2013 Physiology and Pharmacology (15)

Choose ONE or TWO modules from:

Semester 1

BS2015Physiology of Excitable Cells (15)

Semester 2

BS2093Protein Control in Cellular Regulation (15)

Semester 1

For semester 1, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2009 Genomes (15)
BS2030 Principles of Microbiology (15)
BS2092 Molecular and Cell Biology (15)
MB2020 Medical Microbiology (15)
BS2059 Global Change Biology and Conservation (15)
Semester total: 60 credits

Semester 2
Core module:
BS2014 Exercise Physiology and Pharmacology (15)
For semester 2, make the credits add up to 60 by choosing from the modules listed below: [1]
BS2004 Contemporary Techniques in Biological Data Analysis (15)
BS2026 Genes, Development & Inheritance (15)
BS2032 Immunology and Eukaryotic Microbiology (15)
BS2033 Immunology and Eukaryotic Microbiology (with Science Enterprise Trip) (15)
BS2040 Bioinformatics (15)

BS2077 Neurobiology & Animal Behaviour (15)
BS2078 A Field Guide to Evolution (15)
BS2091 Biochemistry of Nucleic Acids (15)
BS2093 Protein Control in Cellular Regulation (15)

Semester total: 60 credits

With a Year in Industry (option)

Core module:

BS3400 Year in Industry Research Placement (0) (Year-long)

Year 3

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS3101	Experimental Research Project A AND	15 credits
Year long	BS3102	Experimental Research Project B OR	30 credits
Sem 1	BS3201	Analytical Research Project OR	30 credits
Sem 1	BS3301	Education Research Project A AND	15 credits
Year long	BS3302	Education Research Project B	30 credits
Sem 1	BS3054	Molecular and Cellular Pharmacology	15 credits
Sem 2	BS3056	Cellular Physiology of the Cardiovascular System	15 credits

Notes
Students choose ONE project type from the above project options. Research projects are worth 30 or 45 credits in total depending on type.

BSc Biological Sciences (Zoology)

Year 1

Semester 1

BS1030 The Molecules of Life – An Introduction to Biochemistry and Molecular Biology (30)

BS1040 The Cell - An Introduction to Microbiology & Cell Biology (30)

Semester 2

BS1050 From Individuals to Populations - An Introduction to Genetics (15)

BS1060 Multicellular Organisation - An Introduction to Physiology, Pharmacology and Neuroscience (30)

BS1070 Biodiversity & Behaviour - An Introduction to Zoology (15)

Year 2

Semester 1

Core modules:

BS2000 Research Topic (15)

BS2059 Global Change Biology and Conservation (15)

Choose THREE OR FOUR modules from:

Semester 1

BS2009Genomes (15)

BS2015 Physiology of Excitable Cells (15)

Semester 2

BS2078A Field Guide to Evolution (15)

BS2026 Genes, Development & Inheritance (15)

Semester 1

For semester 1, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2013 Physiology and Pharmacology (15)BS2030Principles of Microbiology (15)

BS2092 Molecular and Cell Biology (15)MB2020 Medical Microbiology (15)

Semester total: 60 credits

Semester 2

*Core module:*BS2077 Neurobiology & Animal Behaviour (15)

For semester 2, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2004 Contemporary Techniques in Biological Data Analysis (15)

BS2014 Exercise Physiology and Pharmacology (15)

BS2032 Immunology and Eukaryotic Microbiology (15)

BS2033 Immunology and Eukaryotic Microbiology (with Science Enterprise Trip) (15)

BS2040 Bioinformatics (15)BS2091 Biochemistry of Nucleic Acids (15)

BS2093 Protein Control in Cellular Regulation (15)

Semester total: 60 credits

With a Year in Industry (option)

Core module:

BS3400 Year in Industry Research Placement (0) (Year-long)

Year 3

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS3101	Experimental Research Project A AND	15 credits
Year long	BS3102	Experimental Research Project B OR	30 credits
Sem 1	BS3201	Analytical Research Project OR	30 credits
Sem 1	BS3301	Education Research Project A AND	15 credits
Year long	BS3302	Education Research Project B	30 credits
Sem 2	BS3073	Conservation and Ecological Genetics	15 credits

Notes
Students choose ONE project type from the above project options. Research projects are worth 30 or 45 credits in total depending on type.

BSc Biological Sciences (Neuroscience)

Year 1

Semester 1

BS1030 The Molecules of Life – An Introduction to Biochemistry and Molecular Biology (30)

BS1040 The Cell - An Introduction to Microbiology & Cell Biology (30)

Semester 2

BS1050 From Individuals to Populations - An Introduction to Genetics (15)

BS1060 Multicellular Organisation - An Introduction to Physiology, Pharmacology and Neuroscience (30)

BS1070 Biodiversity & Behaviour - An Introduction to Zoology (15)

Year 2

Semester 1

Core modules:

BS2000 Research Topic (15)

BS2015 Physiology of Excitable Cells (15)

Choose ONE or TWO modules from:

Semester 1

BS2013 Physiology and Pharmacology (15)

Semester 2

BS2040Bioinformatics (15)

Semester 1

For semester 1, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2009 Genomes (15)

BS2030 Principles of Microbiology (15)

BS2092 Molecular and Cell Biology (15)

MB2020 Medical Microbiology (15)

BS2059 Global Change Biology and Conservation (15)Semester total: 60 credits

Semester 2

*Core module:*BS2066 Behavioural Neurobiology (15)

For semester 2, make the credits add up to 60 by choosing from the modules listed below: [1]

BS2004 Contemporary Techniques in Biological Data Analysis (15)BS2026 Genes, Development & Inheritance (15)

BS2032 Immunology and Eukaryotic Microbiology (15)

BS2033 Immunology and Eukaryotic Microbiology (with Science Enterprise Trip) (15)BS2078 A Field Guide to Evolution (15)

BS2091 Biochemistry of Nucleic Acids (15)

BS2093 Protein Control in Cellular Regulation (15)

Semester total: 60 credits

With a Year in Industry (option)

Core module:

BS3400 Year in Industry Research Placement (0) (Year-long)

Year 3

Core modules

Delivery period	**Code**	**Title**	**Credits**
Sem 1	BS3101	Experimental Research Project A AND	15 credits
Year long	BS3102	Experimental Research Project B OR	30 credits
Sem 1	BS3201	Analytical Research Project OR	30 credits
Sem 1	BS3301	Education Research Project A AND	15 credits
Year long	BS3302	Education Research Project B	30 credits
Sem 1	BS3055	Molecular and Cellular Neuroscience	15 credits

Delivery period	Code	Title	Credits
Sem 2	BS3016	Neuroscience Futures	15 credits
Sem 2	BS3033	Physiology, Pharmacology and Behaviour	15 credits

Notes

Students choose ONE project type from the above project options. Research projects are worth 30 or 45 credits in total depending on type.