UNIVERSITY OF LEICESTER

Programme Specification (Undergraduate) FOR ENTRY YEAR: 2025/26

Date created: 31/03/2021 **Last amended:** 20/01/2025 **Version no.** 1

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

MBiolSci Biological Sciences
MBiolSci Biological Sciences (Biochemistry)
MBiolSci Biological Sciences (Genetics)
MBiolSci Biological Sciences (Microbiology)
MBiolSci Biological Sciences (Physiology with Pharmacology)
MBiolSci Biological Sciences (Neuroscience)
MBiolSci Medical Biosciences (Biochemistry)
MBiolSci Medical Biosciences (Genetics)
MBiolSci Medical Biosciences (Physiology)
MBiolSci Medical Biosciences (Microbiology)

The MBiolSci programmes are available with or without an optional Year in Industry or Year Abroad

Exit awards (which cannot be applied for) are available as follows:

HE Cert Biological Sciences*
HE Dip Biological Sciences*
BSc Biological Sciences^
BSc Biological Sciences (Biochemistry)^
BSc Biological Sciences (Genetics)^
BSc Biological Sciences (Microbiology)^
BSc Biological Sciences (Physiology with Pharmacology)^
BSc Biological Sciences (Neuroscience)^
BSc Medical Biochemistry^
BSc Medical Genetics^
BSc Medical Physiology^
BSc Medical Microbiology^
BSc Biosciences $
BSc Biosciences (Biochemistry)$
BSc Biosciences (Genetics)$
BSc Biosciences (Microbiology)$
BSc Biosciences (Neuroscience)$
BSc Biosciences (Physiology with Pharmacology)$
BSc Medical Biosciences (Genetics)$

BSc Medical Biosciences (Biochemistry)[$]

BSc Medical Biosciences (Physiology)[$]

BSc Medical Biosciences (Microbiology)[$]

Notes

* An award marked with an asterisk is only available as an exit award and is not available for students to register onto. See Section 10 for details.

^ An award marked with a circumflex is available to students who do not meet the progression requirements into Year 4 or progress to Year 4 but fail to meet the requirements for award of the MBiolSci.

[$] An award marked with a dollar sign is available to students who fail to meet the accreditation requirements of the BSc programme. See Section 10 for details.

a) HECOS Code

HECOS Code	%
100948	100%

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 for the MBiolSci is four years (five years for degrees 'with a year in industry/abroad')

The maximum period of registration for the MBiolSci is six years (seven 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, Chemistry, Physics or Maths. We may consider two AS-levels in place of one A2-level. General Studies not accepted.

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/4 in both English Language and Maths (if not held at A-level)

Access to HE Diploma: Pass Science diploma with 45 credits at level three, 30 of which must be at distinction.

International Baccalaureate: Pass Diploma with 32/30 points, with a minimum of 17/16 points at HL to include grade 6 and 5 in at least two relevant science subjects from Biology, Chemistry, Physics or Maths. Minimum of 3 in HL Maths or 4 in SL Mathematics, or 5 in Maths Studies required if grade C/4 not held at GCSE. Minimum of 4 in English Language required if grade C/4 not held at GCSE

BTEC Nationals: Pass Applied Science Diploma with DDD plus five GCSEs at B/5 or above including two relevant sciences. Please contact Admissions before applying.

English Language Requirements

IELTS 6.5 or equivalent. If an applicant's first language is not English, they may need to provide evidence of their English language ability. If they do not yet meet our requirements, the English Language Teaching Unit (ELTU) offers a range of courses to help applicants to improve their English to the necessary standard.

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

At levels 4, 5 and 6:

- 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
- provide a stimulating and supportive working environment
- provide an education that will enable graduates to follow a variety of careers including higher degrees and research
- 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 subject-specific skills including practical and transferable skills aligned to the Transferable Skills Framework: Interpersonal Skills; Skills associated with Exploration and Implementation and Self-Management Skills;

In addition to the above, at level 7:

- Provide instruction in current concepts and techniques of a specialised area of Biological Sciences as applied in modern research.
- Offer practical instruction in experimental techniques and use of common laboratory equipment.
- Give students direct experience of laboratory-based research during a long- research placement
- Provide a framework to develop skills to plan research and devise strategies to achieve specific research goals.
- Prepare graduates for employment in molecular, biomedical or biotechnological research and related industries, or for entry to PhD programmes.

In addition, for the 'with a Year abroad' variants

- The 'Year Abroad' variant of this programme is offered in accordance with the University's standard specification for the experiential year abroad variant.

In addition, for the 'with a Year in Industry' variants

- The 'Year in industry' variant of this programme is offered in accordance with the University's standard specification for year in industry programme variants.
- To provide experience of applications of professional and discipline-specific skills in Industry and to reinforce knowledge through its use in different environments.

8. Reference points used to inform the programme specification

- QAA Benchmarking Statement
- Framework for Higher Education Qualifications (FHEQ)
- UK Quality Code for Higher Education
- Education Strategy
- University Assessment Strategy [log-in required]
- University of Leicester Periodic Developmental Review Report
- External Examiners' reports (annual)
- United Nations Education for Sustainable Development Goals

- Student Destinations Data

9. Programme Outcomes

Unless otherwise stated, programme outcomes apply to all awards specified in 1. Programme title(s)

(i) Mastery of an appropriate body of knowledge		
Demonstrate an awareness of main principles of biological sciences, Medical Biosciences and related disciplines and explain core concepts of their chosen discipline. Describe current areas of advance in their chosen specialisation(s). **In addition:** Demonstrate high-level knowledge of a research topic **(MBiolSci only)**	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study. **In addition:** Independent research **(MBiolSci only)**	Examination, coursework (e.g. practical reports, written reports, Essay, data analysis, field reports, oral presentations, group reports, video production, poster production, level 6 dissertation) **In addition:** Individual research project and level 7 dissertation. **(MBiolSci only)**

(ii) Understanding and application of key concepts and techniques		
Describe and apply safely appropriate experimental procedures in biological sciences, Medical Biosciences 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. **In addition:** Demonstrate Understanding of advanced concepts of their chosen discipline. Practical demonstration of experimental method. Competent use of standard and specialized equipment. Ability to interrogate publication databases and biological data resources. Manipulate simple biological data. **(MBiolSci only)**	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study.	Examination and coursework **In addition:** Experimental analyses. Contributions to discussions (formative). Individual research project. Project report. **(MBiolSci only)**
(iii) Critical analysis of key issues		
Demonstrate a capacity for critical scientific analysis of issues in the context of biological sciences, Medical Biosciences and related disciplines. **In addition:** Critically appraise data and results and critically review literature. **(MBiolSci only)**	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study. **In addition:** Laboratory classes, laboratory research project supervision and appraisals. Independent research. **(MBiolSci only)**	Examination and coursework **In addition:** Experimental analyses. Contributions to discussions. Project appraisals (formative). Project report. Individual research project. **(MBiolSci only)**

(iv) Clear and concise presentation of material		
Communicate orally and in writing concepts and arguments in biological Sciences, Medical Biosciences and related disciplines. **In addition:** Present scientific results. Participate in scientific discussion. **(MBiolSci only)**	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study. **In addition:** Laboratory classes. Research project supervision. Research project laboratory meetings. **(MBiolSci only)**	Examination and coursework **In addition:** Contributions to discussions. Laboratory presentations, Project presentations (formative and assessed). **(MBiolSci only)**
(v) Critical appraisal of evidence with appropriate insight		
Demonstrate the capacity to analyse and criticise evidence from both experimental procedures and the literature. **In addition:** Demonstrate awareness of the experimental method and project design **(MBiolSci only)**	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study. **In addition:** Laboratory classes. Lectures. Research project supervision. Tutorials. **(MBiolSci only)**	Examination and coursework **In addition:** Experimental analyses. Individual research project and dissertation. **(MBiolSci only)**
(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, Medical Biosciences and related disciplines. **In addition:** deliver effective oral presentations. **(MBiolSci only)**	Tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work.	Oral presentations, group reports, tutorials. **In addition:** Individual research project. Project appraisals (formative). Project report. Research seminar. **(MBiolSci only).**
ii) Research skills		
Should be able to problem solve, analyse data and interpret simple statistical tests. Should maintain useful research notes/records. **(MBiolSci only)**	Laboratory and computer classes. Individual research project. Project supervision **(MBiolSci only).**	Performance in laboratory and computer classes (formative). Laboratory notebook. Experimental analyses. Examinations: problem-based. Individual research project **(MBiolSci only).**
iii) Communication Skills		
Communicate in writing, with clarity and coherence, concepts and arguments in biological sciences, Medical Biosciences and related disciplines. **In addition:** Write effective scientific reports **(MBiolSci only)**	Tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work. **In addition:** Study skills support. Project supervision. Individual research project **(MBiolSci only).**	Examination and coursework **In addition:** Individual research project. Project appraisals (formative). Project report. Research seminar. **(All MBiolSci)**

iv) Information technology		
Demonstrate the effective use of IT for accessing databases and scientific literature; manipulating, processing and presenting data; presenting written assignments. **In addition:** Ability to interrogate publication databases and use bibliographic software. Identify, retrieve and manipulate simple biological data. Demonstrate mastery of word processing and presentation software. **(MBiolSci only)**	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, and private study. **In addition:** Laboratory and computer classes. Study skills support. **(MBiolSci only)**	Examination and coursework **In addition:** Experimental analyses. Essay. Seminar presentation. Project report **(MBiolSci only)**
v) 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
vi) Team working		
Demonstrate the ability to work as part of a group **In addition:** Display project management and organizational skills. Effective interaction with supervisor. **(MBiolSci only)**	Tutorials, group work, research projects. **In addition:** Individual research project Project supervision **(MBiolSci only)**	Group reports, use of class data to generate practical reports **In addition:** Assessment of project. Formative feedback in laboratory classes. **(MBiolSci only).**

vii) 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. **In addition:** Individual research project Project supervision **(MBiolSci only)**	Examination and coursework **In addition:** Assessment of project Formative feedback in laboratory classes. **(MBiolSci only).**
viii) 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
ix) 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. **In addition:** Should be able to apply study skills and manage information. Develop specialization and manage project **(MBiolSci only).**	Lectures, tutorials, seminars, practical classes, computer classes, discussions, fieldwork, research projects, group work, directed reading, resource-based learning, private study, career development programme. **In addition:** Library and IT skills, study skills support. Individual research project **(MBiolSci only).**	Examination, coursework, personal development planning. **In addition:** Essay. Individual research project. Project appraisals (formative) **(MBiolSci only).**

Year Abroad

In addition, for the 'with a Year abroad' variants the additional programme outcomes apply

Year in Industry

In addition, for the Year in Industry' variants the additional programme outcomes apply

10. Progression points:

Progression from levels 4 to 5 and 5 to 6

The programme follows the scheme of progression set out in Senate Regulation 5.

The following dispensations from Senate Regulation 5 have been approved by the University:

The following modules on these programmes are not eligible for compensation and must be passed at the relevant pass mark (40% at Levels 4-6) for progression to Year 4 and for the degree to be awarded:

- BS3101 - Experimental Research Project A
- BS3102 - Experimental Research Project B
- BS3201 - Analytical Research Project
- BS3301 - Education Research Project A

Progression from level 6 to 7

The number of students allowed to transfer to the MBiolSci will be capped at 15. Should more than 15 students apply performance at interview will be used to select those progressing to level 7.

Progression to Year Abroad

Students will have the opportunity to take a Year Abroad either between levels 5 and 6 OR levels 6 and 7. Student can only take a Year Abroad on one occasion and cannot take both a Year Abroad AND a Year in Industry.

Progression to Year in Industry

Students will have the opportunity to take a Year in Industry either between levels 5 and 6 OR levels 6 and 7. Student can only take a Year in Industry on one occasion and cannot take both a Year in Industry AND a Year Abroad

To take a Year in Industry after level 5, students would need to meet standard University eligibility requirements to progress to the next level of study. Students who obtain a level 5 CWA of less than 55.00% will be permitted to take a Year in Industry but will not be eligible for progression to level 7, and therefore would revert to a BSc (with a Year in Industry). See 'Progression from levels 4 to 5 and 5 to 6' for more information.

To take a Year in Industry after level 6, students would need a level 5 CWA of 55.00% or higher and a level 6 CWA of 55.00% or higher. Students who do not meet the eligibility criteria, but who meet the requirements to graduate with a BSc, would graduate that year with a BSc. See 'Progression from level 6 to 7' for more information.

Exit awards

Students who fail to complete level 5 study, level 6 study or level 7 study may be eligible for the exit awards: HE Cert Biological Sciences; HE Dip Biological Sciences and BSc Biological Sciences respectively. Students are not permitted to register purely for the HE Cert or HE Dip.

Exit awards (which cannot be applied for) are available as follows:

HE Cert Biological Sciences
HE Dip Biological Sciences

BSc Biological Sciences
BSc Biological Sciences (Biochemistry)
BSc Biological Sciences (Genetics)
BSc Biological Sciences (Microbiology)
BSc Biological Sciences (Physiology with Pharmacology)
BSc Biological Sciences
BSc Medical Biochemistry
BSc Medical Genetics
BSc Medical Physiology
BSc Medical Microbiology
BSc Biosciences
BSc Biosciences (Biochemistry)
BSc Biosciences (Genetics)
BSc Biosciences (Microbiology)
BSc Biosciences (Neuroscience)
BSc Biosciences (Physiology with Pharmacology)
BSc Medical Biosciences (Genetics)
BSc Medical Biosciences (Biochemistry)
BSc Medical Biosciences (Physiology)
BSc Medical Biosciences (Microbiology)

The following modules on these programmes are not eligible for compensation and must be passed at the relevant pass mark (40% at Levels 4-6) for the degree to be awarded:

- BS3101 - Experimental Research Project A
- BS3102 - Experimental Research Project B
- BS3201 - Analytical Research Project
- BS3301 - Education Research Project A

Students who fail to achieve this mark after reassessment may not progress to the MBiolSci final year. In this case, if all other progression and awarding regulations are met they may be awarded a non-accredited degree in Biosciences or Medical Biosciences with/without relevant specialism.

Exit awards may be awarded with or without an optional Year in Industry or Year Abroad

11. Criteria for award and classification

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

12. Special features

Students receive a broad level 4 education in biological sciences, Medical Biosciences and related disciplines along with training in key skills including the Leicester Award. As the course progresses into level 5 and 6, students have the option 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 at universities abroad.

The School of Biological Sciences has a strong reputation for research and the range of staff expertise enables provision of research-led, level 6 and 7 programmes that offer breadth and depth. In the fourth year, the students move on to a level 7, 30 credit taught programme that mirrors the School's laboratory-based MSc programmes; they then follow this up with a 90 credit research project. the project allocation process at level 7 will ensure that projects are appropriate to the degree title.

For the Year Abroad variant the additional Special Features apply.

For the Year in Industry variant.
The University recognises that undertaking a work placement as part of the programme of study can enhance career prospects and provide added value, and as such this programme includes a 'year in industry' variant.

By experiencing real-world scenarios and applying skills and knowledge to a professional environment, students can gain a unique insight into how their studies can be utilised in industry. This will not only showcase their abilities to future employers but will also enhance their studies upon returning to university to complete your programme.

To understand the special features for year in industry undergraduate programme variants, this programme specification should be read in conjunction with the programme specification content which can be found here. This outlines details including programme aims, support, progression and duration.

12a. Research-inspired Education

Students on this programme will advance through the four quadrants of the University of Leicester Research-inspired Education Framework as follows:

RiE Quadrant	Narrative
	The programmes provide the practical experience and knowledge of the subject areas relevant to the Biological Sciences and Medical Biosciences. This also includes critical thinking, data analysis and independent research skills with additional interaction with current literature and research ongoing in the University of Leicester.
Research-briefed Bringing staff research content into the curriculum.	Research-briefed: Lectures are taught by staff actively involved in research. These may contain current research outcomes or techniques widely used in research. Proficiency in lab skills is examined by practical assessment.
Research-based Framed enquiry for exploring existing knowledge.	Research-based: Students use active learning to explore the concepts introduced in the lectures by performing multi-day practical techniques. These techniques are used to answer a research problem. The students analyse the results of their own experiments to generate written reports and compare outcomes to published literature.
Research-oriented Students critique published research content and process.	Research-oriented: A knowledge of the structure of scientific publications is gained and research is critiqued. Current published research is used to construct a research proposal alongside research and professional skills and regulatory considerations.
Research-apprenticed Experiencing the research process and methods; building new knowledge.	Research-apprenticed: The students will design and undertake research outlined in their proposals as part of a full-time research project. During this time students will be invited to attend and be involved in lab meetings and departmental seminars to experience the research process.

As part of studying at a research-intensive university, students on this programme have the following extra or co-curricular opportunities available to them to gain exposure to research culture:

Departmental, University and external speaker seminars are an important way that scientists disseminate their research outcomes. Students are invited to attend these seminars to experience the research process. Many students attend the seminars which help them to see the breadth of research in their subject area. The student research projects are embedded into the active research teams and so students are surrounded by other research staff with whom they can discuss the current research being performed and engage with the full research process and environment.

Teaching on this programme will be research-informed (it draws consciously on systematic inquiry into the teaching and learning process itself) in the following way:

The School supports all staff involved in teaching to gain an accredited Higher Education teaching qualification, in which they demonstrate their use of teaching theory to support their own practice and reflect on their current teaching and continuing professional development.

All programme module convenors attend a seminar group that supports teaching activities across the school. This supports educational best practice with talks from external speakers and sharing evaluations and projects on teaching practice.

13. Indications of programme quality

External examiner evaluations.
Annual Developmental Review
Periodic Development Review
Module Review
Destinations of Leavers from Higher Education (DLHE) and Longitudinal Educational Outcomes survey (LEO).
National Student Survey
Student Feedback

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)

The University regularly reviews its programmes and modules to ensure that they reflect the current status of the discipline and offer the best learning experience to students. On occasion, it may be necessary to alter particular aspects of a course or module.

Updates to the programme

Academic Year affected	Module	Change
2026/27	BS2093 Protein Structure and Function	Previously *Protein Control in Cellular Regulation.* Moved to Semester 1
2026/27	BS2092 Molecular and Cell Biology	Moved to Semester 2 from Semester 1
2027/28	Students taking an Education Project	Students will take BS3301 Education Research Project A and BS3102 Experimental Research Project B

Please see Section B for option modules on the Biological Sciences streams

Level 4/Year 1 2025/26 ALL BIOLOGICAL SCIENCES STREAMS

Credit breakdown

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

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS1030	The Molecules of Life – An Introduction to Biochemistry and Molecular Biology	30 credits

Delivery period	Code	Title	Credits
Sem 1	BS1040	The Cell – An Introduction to Microbiology and Cell Biology	30 credits
Sem 2	BS1050	From Individuals to Populations – An Introduction to Genetics	15 credits
Sem 2	BS1060	Multicellular Organisation – An Introduction to Physiology, Pharmacology and Neuroscience	30 credits
Sem 2	BS1070	Biodiversity and Behaviour – An Introduction to Zoology	15 credits

Biological Sciences MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	n/a	15 credits	n/a
Optional	n/a	45 credits	60 credits

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS2200	Research Skills 1	15 credits
Sem 2	BS2000	Research Skills 2	15 credits

Level 6/Year 3 2027/28

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	BS3102	Experimental 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.

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Biological Sciences (Biochemistry) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

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

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS2200	Research Skills 1	15 credits
Sem 1	BS2093	Protein Structure and Function	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2091	From Genes to Proteins	15 credits
Sem 2	BS2092	Molecular and Cell Biology	15 credits

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

120 credits in total

Students taking an Analytical project:

Status	Year long	Semester 1	Semester 2
Core	n/a	60 credits	15 credits
Optional	n/a	n/a	45 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	BS3102	Experimental 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.

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Biological Sciences (Genetics) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

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

120 credits in total

Core modules

Delivery period	**Code**	**Title**	**Credits**
Sem 1	BS2200	Research Skills 1	15 credits
Sem 1	BS2009	Genomes	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2026	Genes, Development and Inheritance	15 credits
Sem 2	BS2040	Bioinformatics	15 credits

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

120 credits in total

Students taking an Analytical project:

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

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	BS3102	Experimental 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.

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Biological Sciences (Microbiology) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

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

120 credits in total

Core modules

Delivery period	**Code**	**Title**	**Credits**
Sem 1	BS2200	Research Skills 1	15 credits
Sem 1	BS2030	Principles of Microbiology	15 credits
Sem 1	MB2020	Medical Microbiology	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2032 or BS2033	Immunology and Eukaryotic Microbiology/ Immunology and Eukaryotic Microbiology (with Science Enterprise Trip)	15 credits

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

Status	Year long	Semester 1	Semester 2
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	BS3102	Experimental 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.

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Biological Sciences (Neuroscience) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

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

120 credits in total

Core modules

Delivery period	**Code**	**Title**	**Credits**
Sem 1	BS2200	Research Skills 1	15 credits
Sem 1	BS2015	Physiology of Excitable Cells	15 credits
Sem 1	BS2013	Physiology and Pharmacology	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2066	Behavioural Neurobiology	15 credits

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

120 credits in total

Students taking an Analytical project:

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

Delivery period	Code	Title	Credits
Sem 1	BS3301	Education Research Project A AND	15 credits
Year long	BS3102	Experimental Research Project B	30 credits
Sem 1	BS3055	Molecular and Cellular Neuroscience	15 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.

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Biological Sciences (Physiology with Pharmacology) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

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

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS2200	Research Skills 1	15 credits
Sem 1	BS2013	Physiology and Pharmacology	15 credits
Sem 1	BS2015	Physiology of Excitable Cells	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2014	Exercise Physiology and Pharmacology	15 credits

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

120 credits in total

Students taking an Analytical project:

Status	Year long	Semester 1	Semester 2
Core	n/a	45 credits	15 credits
Optional	n/a	15 credits	45 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	BS3102	Experimental 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.

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Section B

Option Modules – Year 2

All Programmes

Please see the table below for available options in the second year of your programme. N.B. Options are subject to timetabling constraints. All modules are 15 credits.

Key

C100 = Biological Sciences

C700 = Biological Sciences (Biochemistry)

C400 = Biological Sciences (Genetics)

C500 = Biological Sciences (Microbiology)

B140 = Biological Sciences (Neuroscience)

B1B2 = Biological Sciences (Physiology with Pharmacology)

Delivery period	Code	Module title	C100	C700	C400	C500	B140	B1B2
Semester 1	BS2009	Genomes	*	*		*	*	*
Semester 1	BS2013	Physiology and Pharmacology	*	*	*	*		
Semester 1	BS2015	Physiology of Excitable Cells	*	*	*	*		
Semester 1	BS2030	Principles of Microbiology	*	*	*		*	*
Semester 1	BS2059	Global Change Biology and Conservation	*	*	*	*	*	*
Semester 1	BS2093	Protein Structure and Function	*		*	*	*	*

Delivery period	Code	Module title	C100	C700	C400	C500	B140	B1B2
Semester 1	BS2094	Introduction to Python programming for Bioscientists	*	*	*	*	*	*
Semester 1	MB2020	Medical Microbiology	*	*	*		*	*
Semester 2	BS2004	Contemporary Techniques in Biological Data Analysis	*	*	*	*	*	*
Semester 2	BS2092	Molecular and Cell Biology	*		*	*	*	*
Semester 2	BS2014	Exercise Physiology and Pharmacology	*	*	*	*	*	
Semester 2	BS2026	Genes, Development and Inheritance	*	*		*	*	*
Semester 2	BS2032	Immunology and Eukaryotic Microbiology	*	*	*		*	*
Semester 2	BS2033	Immunology and Eukaryotic Microbiology (with Science Enterprise Trip)	*	*	*		*	*
Semester 2	BS2040	Bioinformatics	*	*		*	*	*
Semester 2	BS2066	Behavioural Neurobiology	*	*	*	*		*
Semester 2	BS2077	Neurobiology and Animal Behaviour	*	*	*	*		*
Semester 2	BS2078	A Field Guide to Evolution	*	*	*	*	*	*
Semester 2	BS2091	From Genes to Proteins	*		*	*	*	*

Notes

This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

Option Modules – Year 3

All Programmes

Please see the table below for available options in the third year of your programme. N.B. Options are subject to timetabling constraints. All modules are 15 credits.

Key

C100 = Biological Sciences

C700 = Biological Sciences (Biochemistry)

C400 = Biological Sciences (Genetics)

C500 = Biological Sciences (Microbiology)

B140 = Biological Sciences (Neuroscience)

B1B2 = Biological Sciences (Physiology with Pharmacology)

Delivery period	Code	Module title	C100	C700	C400	C500	B140	B1B2
Semester 1	BS3000	Evolutionary Genetics	*			*		*
Semester 1	BS3010	Gene Expression: Molecular Basis and Medical Relevance	*			*		*
Semester 1	BS3015	Molecular and Cellular Immunology	*			*~		*
Semester 1	BS3031	Human Genetics	*			*		*
Semester 1	BS3038	Biodiversity in Practice	*			*		*
Semester 1	BS3054	Molecular and Cellular Pharmacology	*			*	*+	
Semester 1	BS3055	Molecular and Cellular Neuroscience	*			*		*°
Semester 1	BS3064	Comparative Neurobiology	*			*	*+	*
Semester 1	BS3068	Microbial Biotechnology	*			*~		*

Delivery period	Code	Module title	C100	C700	C400	C500	B140	B1B2
Semester 1	BS3070	Structural Biology	*					*
Semester 1	NT3100	Sustainability Enterprise Partnership Project	*			*		*
Semester 2	BS3003	Cancer Cell and Molecular Biology	*		*	*	*	*
Semester 2	BS3011	Microbial Pathogenesis and Genomics	*	*	*^	*~	*	*
Semester 2	BS3013	Human and Environmental Microbiology	*	*	*	*~	*	*
Semester 2	BS3016	Neuroscience Futures	*	*	*	*		*
Semester 2	BS3033	Physiology, Pharmacology and Behaviour	*	*	*	*		*°
Semester 2	BS3056	Cellular Physiology of the Cardiovascular System	*	*	*	*		
Semester 2	BS3069	Introduction to Astrobiology and the Origin of Life	*	*	*	*	*	*
Semester 2	BS3073	Conservation and Ecological Genetics	*	*	*^	*	*	*
Semester 2	BS3080	Behavioural Ecology	*	*	*	*	*	*
Semester 2	NT3200	Sustainability Enterprise Partnership Project	*	*	*	*	*	*
Semester 2	MB3057	Current and Future Therapeutics					*	*°

^ students must choose at least one of the indicated modules

~ students must choose three or four of the indicated modules

+ students must choose one of the indicated modules

° students must choose two or three of the indicated modules

Notes

This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

Level 4/Year 1 2025/26 ALL MEDICAL BIOSCIENCES STREAMS

Credit breakdown

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

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS1030	The Molecules of Life – An Introduction to Biochemistry and Molecular Biology	30 credits
Sem 1	BS1040	The Cell – An Introduction to Microbiology and Cell Biology	30 credits
Sem 2	BS1050	From Individuals to Populations – An Introduction to Genetics	15 credits
Sem 2	BS1060	Multicellular Organisation – An Introduction to Physiology, Pharmacology and Neuroscience	30 credits
Sem 2	MB1080	An Introduction to Medical Bioscience	15 credits

Medical Biosciences (Biochemistry) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

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

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS2200	Research Skills1	15 credits
Sem 1	MB2050	Biochemical Approaches to Therapeutic Development	15 credits
Sem 1	BS2093	Protein Structure and Function	15 credits
Sem 2	BS2091	From Genes to Proteins	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2092	Molecular Cell Biology	15 credits

Notes

N/A

Option modules

Delivery period	Code	Title	Credits
Semester 1	BS2009	Genomes	15 credits
Semester 1	BS2013	Physiology and Pharmacology	15 credits
Semester 1	BS2015	Physiology of Excitable Cells	15 credits
Semester 1	BS2030	Principles of Microbiology	15 credits
Semester 1	BS2094	Introduction to Python programming for Bioscientists	15 credits
Semester 1	MB2020	Medical Microbiology	15 credits
Semester 2	BS2004	Contemporary Techniques in Biological Data Analysis	15 credits

Delivery period	Code	Title	Credits
Semester 2	BS2014	Exercise Physiology and Pharmacology	15 credits
Semester 2	BS2026	Genes, Development and Inheritance	15 credits
Semester 2	BS2032	Immunology and Eukaryotic Microbiology	15 credits
Semester 2	BS2033	Immunology and Eukaryotic Microbiology (with Science Enterprise Trip)	15 credits
Semester 2	BS2040	Bioinformatics	15 credits
Semester 2	BS2066	Behavioural Neurobiology	15 credits
Semester 2	BS2077	Neurobiology and Animal Behaviour	15 credits
Semester 2	BS2078	A Field Guide to Evolution	15 credits
Semester 2	BS2092	Molecular and Cell Biology	15 credits

Notes

This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

120 credits in total

Students taking an Analytical project:

Status	Year long	Semester 1	Semester 2
Core	n/a	45 credits	15 credits
Optional	n/a	15 credits	45 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	BS3102	Experimental Research Project B	
Sem 1	BS3010	Gene Expression: Molecular Basis and Medical Relevance	15 credits
Sem 2	MB3001	Biochemical Mechanisms of Human Disease	15 credits

Notes

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

Option modules

Students MUST choose ONE or TWO modules from BS3070 and BS3003

Delivery period	Code	Title	Credits
Semester 1	BS3000	Evolutionary Genetics	15 credits
Semester 1	BS3015	Molecular and Cellular Immunology	15 credits
Semester 1	BS3031	Human Genetics	15 credits
Semester 1	BS3054	Molecular and Cellular Pharmacology	15 credits
Semester 1	BS3055	Molecular and Cellular Neuroscience	15 credits
Semester 1	BS3064	Comparative Neurobiology	15 credits
Semester 1	BS3068	Microbial Biotechnology	15 credits
Semester 1	BS3038	Biodiversity in Practice	15 credits
Semester 1	BS3070	Structural Biology	15 credits
Semester 1	NT3100	Sustainability Enterprise Partnership Project	15 credits
Semester 2	BS3003	Cancer Cell and Molecular Biology	15 credits
Semester 2	BS3011	Microbial Pathogenesis and Genomics	15 credits
Semester 2	BS3013	Human and Environmental Microbiomics	15 credits
Semester 2	BS3016	Neuroscience Futures	15 credits
Semester 2	BS3033	Physiology, Pharmacology and Behaviour	15 credits
Semester 2	BS3056	Cellular Physiology of the Cardiovascular System	15 credits
Semester 2	BS3069	Introduction to Astrobiology and the Origin of Life	15 credits
Semester 2	NT3200	Sustainability Enterprise Partnership Project	15 credits

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Medical Biosciences (Genetics) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

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

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS2200	Research Skills 1	15 credits
Sem 1	MB2051	Current Issues in Medical Genetics	15 credits
Sem 1	BS2009	Genomes	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2040	Bioinformatics	15 credits
Sem 2	BS2026	Genes, Development & Inheritance	15 credits

Notes
N/A

Option modules

Delivery period	Code	Title	Credits
Semester 1	BS2013	Physiology and Pharmacology	15 credits
Semester 1	BS2015	Physiology of Excitable Cells	15 credits
Semester 1	BS2030	Principles of Microbiology	15 credits
Semester 1	BS094	Introduction to Python Programming for Bioscientists	15 credits
Semester 1	BS2093	Protein Structure and Function	15 credits
Semester 1	MB2020	Medical Microbiology	15 credits
Semester 2	BS2004	Contemporary Techniques in Biological Data Analysis	15 credits
Semester 2	BS2014	Exercise Physiology and Pharmacology	15 credits
Semester 2	BS2032	Immunology and Eukaryotic Microbiology	15 credits
Semester 2	BS2033	Immunology and Eukaryotic Microbiology (with Science Enterprise Trip)	15 credits
Semester 2	BS2066	Behavioural Neurobiology	15 credits
Semester 2	BS2077	Neurobiology and Animal Behaviour	15 credits
Semester 2	BS2091	From Genes to Proteins	15 credits
Semester 2	BS2092	Molecular and Cell Biology	15 credits

Notes
This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

120 credits in total

Students taking an Analytical project:

Status	Year long	Semester 1	Semester 2
Core	n/a	60 credits	30 credits
Optional	n/a	n/a	30 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	BS3102	Experimental Research Project B	30 credits
Sem 1	BS3000	Evolutionary Genetics	15 credits
Sem 1	BS3031	Human Genetics	15 credits
Sem 2	BS3011	Microbial Pathogenesis and Genomics	15 credits
Sem 2	MB3050	Medical Genetics	15 credits

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

Option modules

Delivery period	Code	Title	Credits
Semester 2	BS3003	Cancer Cell and Molecular Biology	15 credits
Semester 2	BS3013	Human and Environmental Microbiomics	15 credits
Semester 2	BS3016	Neuroscience Futures	15 credits
Semester 2	BS3033	Physiology, Pharmacology and Behaviour	15 credits
Semester 2	BS3056	Cellular Physiology of the Cardiovascular System	15 credits
Semester 2	BS3069	Introduction to Astrobiology and the Origin of Life	15 credits
Semester 2	NT3200	Sustainability Enterprise Partnership Project	15 credits

Notes
This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

Level 7/ Year 4 2028/29

Delivery period	**Code**	**Title**	**Credits**
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Medical Biosciences (Microbiology) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

Status	Year long	Semester 1	Semester 2
Core	n/a	45 credits	n/a
Optional	n/a	15 credits	60 credits

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS2200	Research Skills 1	15 credits
Sem 1	BS2030	Principles of Microbiology	15 credits
Sem 1	MB2020	Medical Microbiology	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2032 or BS2033	Immunology & Eukaryotic Microbiology (or with Science Enterprise Trip)	15 credits

Notes
*Students MUST choose **ONE** module from BS2032 or BS2033*

Option modules

Delivery period	Code	Title	Credits
Semester 1	BS2009	Genomes	15 credits
Semester 1	BS2013	Physiology and Pharmacology	15 credits
Semester 1	BS2015	Physiology of Excitable Cells	15 credits
Semester 1	BS2059	Global Change Biology and Conservation	15 credits
Semester 1	BS2093	Protein Structure and Function	15 credits
Semester 1	BS2094	Introduction to Python Programming for Bioscientists	15 credits
Semester 2	BS2004	Contemporary Techniques in Biological Data Analysis	15 credits
Semester 2	BS2014	Exercise Physiology and Pharmacology	15 credits
Semester 2	BS2026	Genes, Development and Inheritance	15 credits
Semester 2	BS2040	Bioinformatics	15 credits
Semester 2	BS2066	Behavioural Neurobiology	15 credits
Semester 2	BS2077	Neurobiology and Animal Behaviour	15 credits
Semester 2	BS2091	From Genes to Proteins	15 credits
Semester 2	BS2092	Molecular and Cell Biology	15 credits

Notes
This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

120 credits in total

Students taking an Analytical project:

Status	Year long	Semester 1	Semester 2
Core	n/a	45 credits	15 credits
Optional	n/a	15 credits	45 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	BS3102	Experimental Research Project B	30 credits
Sem 2	MB3020	Advanced Topics in Medical Microbiology	15 credits

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

Option modules

*Students <u>MUST</u> choose **THREE** or **FOUR** modules from BS3015, BS3068, BS3011 and BS3013*

Delivery period	Code	Title	Credits
Semester 1	BS3000	Evolutionary Genetics	15 credits
Semester 1	BS3010	Gene Expression: Molecular Basis and Medical Relevance	15 credits
Semester 1	BS3015	Molecular and Cellular Immunology	15 credits
Semester 1	BS3031	Human Genetics	15 credits
Semester 1	BS3054	Molecular and Cellular Pharmacology	15 credits
Semester 1	BS3055	Molecular and Cellular Neuroscience	15 credits
Semester 1	BS3064	Comparative Neurobiology	15 credits
Semester 1	BS3068	Microbial Biotechnology	15 credits
Semester 1	BS3038	Biodiversity in Practice	15 credits
Semester 1	BS3070	Structural Biology	15 credits
Semester 1	NT3100	Sustainability Enterprise Partnership Project	15 credits
Semester 2	BS3003	Cancer Cell and Molecular Biology	15 credits
Semester 2	BS3011	Microbial Pathogenesis and Genomics	15 credits
Semester 2	BS3013	Human and Environmental Microbiology	15 credits
Semester 2	BS3016	Neuroscience Futures	15 credits
Semester 2	BS3033	Physiology, Pharmacology and Behaviour	15 credits
Semester 2	BS3069	Introduction to Astrobiology and the Origin of Life	15 credits
Semester 2	BS3056	Cellular Physiology of the Cardiovascular System	15 credits

Delivery period	Code	Title	Credits
Semester 2	NT3200	Sustainability Enterprise Partnership Project	15 credits

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

Medical Biosciences (Physiology) MBiolSci

Level 5/Year 2 2026/27

Credit breakdown

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

120 credits in total

Core modules

Delivery period	Code	Title	Credits
Sem 1	BS2200	Research Skills 1	15 credits
Sem 1	BS2013	Physiology and Pharmacology	15 credits
Sem 1	BS2015	Physiology of Excitable Cells	15 credits
Sem 2	MB2080	Pathophysiology of Disease	15 credits
Sem 2	BS2000	Research Skills 2	15 credits
Sem 2	BS2014	Exercise Physiology & Pharmacology	15 credits

Notes
N/A

Option modules

Delivery period	Code	Title	Credits
Semester 1	BS2009	Genomes	15 credits
Semester 1	BS2030	Principles of Microbiology	15 credits
Semester 1	BS2091	From Genes to Proteins	15 credits
Semester 1	BS2059	Global Change Biology and Conservation	15 credits
Semester 1	BS2093	Protein Structure and Function	15 credits
Semester 1	BS2094	Introduction to Python Programming for Bioscientists	15 credits
Semester 1	MB2020	Medical Microbiology	15 credits
Semester 2	BS2004	Contemporary Techniques in Biological Data Analysis	15 credits
Semester 2	BS2026	Genes, Development and Inheritance	15 credits
Semester 2	BS2032	Immunology and Eukaryotic Microbiology	15 credits
Semester 2	BS2033	Immunology and Eukaryotic Microbiology (with Science Enterprise Trip)	15 credits
Semester 2	BS2040	Bioinformatics	15 credits
Semester 2	BS2066	Behavioural Neurobiology	15 credits
Semester 2	BS2077	Neurobiology and Animal Behaviour	15 credits
Semester 2	BS2092	Molecular and Cell Biology	15 credits

Notes
This is an indicative list of option modules and not definitive of what will be available. Option module choice is also subject to availability, timetabling, student number restrictions and, where appropriate, students having taken appropriate pre-requisite modules.

Level 6/Year 3 2027/28

Credit breakdown

Students taking an Experimental or Education project:

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

120 credits in total

Students taking an Analytical project:

Status	Year long	Semester 1	Semester 2
Core	n/a	30 credits	15 credits
Optional	n/a	30 credits	45 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	BS3102	Experimental Research Project B	30 credits
Sem 2	MB3057	Current and Future Therapeutics	15 credits

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

Option modules

*Students MUST choose **THREE** or **FOUR** modules from BS3054, BS3055, BS3033 and BS3056*

Delivery period	Code	Title	Credits
Semester 1	BS3000	Evolutionary Genetics	15 credits
Semester 1	BS3010	Gene Expression: Molecular Basis and Medical Relevance	15 credits
Semester 1	BS3015	Molecular and Cellular Immunology	15 credits
Semester 1	BS3031	Human Genetics	15 credits
Semester 1	BS3038	Biodiversity in Practice	15 credits
Semester 1	BS3054	Molecular and Cellular Pharmacology	15 credits
Semester 1	BS3055	Molecular and Cellular Neuroscience	15 credits
Semester 1	BS3064	Comparative Neurobiology	15 credits
Semester 1	BS3068	Microbial Biotechnology	15 credits
Semester 1	BS3070	Structural Biology	15 credits
Semester 1	NT3100	Sustainability Enterprise Partnership Project	15 credits
Semester 2	BS3003	Cancer Cell and Molecular Biology	15 credits
Semester 2	BS3011	Microbial Pathogenesis and Genomics	15 credits
Semester 2	BS3013	Human and Environmental Microbiology	15 credits
Semester 2	BS3016	Neuroscience Futures	15 credits
Semester 2	BS3033	Physiology, Pharmacology and Behaviour	15 credits
Semester 2	BS3056	Cellular Physiology of the Cardiovascular System	15 credits
Semester 2	BS3069	Introduction to Astrobiology and the Origin of Life	15 credits

Delivery period	Code	Title	Credits
Semester 2	BS3073	Conservation and Ecological Genetics	15 credits
Semester 2	BS3080	Behavioural Ecology	15 credits
Semester 2	NT3200	Sustainability Enterprise Partnership Project	15 credits

Level 7/ Year 4 2028/29

Delivery period	Code	Title	Credits
Semester 1	BS4008	Core Laboratory Techniques	30 credits
Year Long	BS4010	MBiolSci Research Project	90 credits

ALL MBIOLSCI PROGRAMMES

MBiolSci with a Year in Industry (if taking the Year in Industry between Year 2 and 3)

Core modules

Delivery period	Code	Title	Credits
Year Long	BS3400	Year in Industry Research Placement	0 credits

MBiolSci with a Year in Industry (if taking the Year in Industry between Year 3 and 4)

Core modules

Delivery period	Code	Title	Credits
Year Long	BS4400	Year in Industry Research Placement	0 credits

Appendix 2: Module specifications

See undergraduate module specification database [log-in required] (Note - modules are organized by year of delivery).