BSc (Hons) Biology (and pathways)

Awarding institution	Bath Spa University
Teaching institution	Bath Spa University
School	School of Sciences
Main campus	Newton Park
Other sites of delivery	n/a
Other Schools involved in delivery	School of Education
Name of award(s)	Biology Biology (Human Biology) Biology (Conservation Biology) Biology (Microbiology)
Qualification (final award)	BSc (Hons)
Intermediate awards available	CertHE, DipHE, BSc
Routes available	Single/Joint
Professional Placement Year	Optional
Duration of award	3 years full-time, 4 years with Professional Placement Year 6 years part time
Modes of delivery offered	Campus-based
Regulatory Scheme [1]	Undergraduate Academic Framework
Exemptions from regulations/framework[2]	n/a
Professional, Statutory and Regulatory Body accreditation	The Royal Society of Biology
Date of most recent PSRB approval (month and year)	August 2024
Renewal of PSRB approval due (month and year)	August 2029
UCAS code	C100 S117 - with placement year
Route code (SITS)	BISIN Biology Single
Relevant QAA Subject Benchmark Statements (including date of publication)	Biosciences (March 2023)
Date of most recent approval	April 2019
Date specification last updated	January 2025

[1] This should also be read in conjunction with the University's Qualifications Framework

[2] See section on 'Exemptions'

Exemptions

There are no exemptions

Programme Overview

This RSB-accredited programme is designed to enable you to become a professional Biologist with a range of specialist routes within the overall framework. The single honours Biology degree gives you core knowledge and skills in topics such as microbiology, ecology, epidemiology, animal behaviour, medical biology, plant biology and food studies. This particularly suits students that have a broad interest in Biology and wish to maintain this throughout their degree, perhaps with an interest in teaching or increasing the range of employment open to them on graduation.

This programme has been accredited by the Royal Society of Biology following an independent and rigorous assessment. Accredited degree programmes contain a solid academic foundation in biological knowledge and key skills, and prepare graduates to address the needs of employers.

Our specialist pathway in **Conservation Biology** offers a more focussed programme of study enabling you to develop your skills in applied aspects of wildlife conservation. You will study topics related to biodiversity, ecology and environmental management. At final year level you will learn more about animal behaviour and environmental practices. Our degree will stand you in good stead for a practical focussed career in environmental/ecology consultancy or research or further study in conservation.

The specialist pathway in **Human Biology** has a particular emphasis on health, well-being and nutrition. In addition to the compulsory modules you have the opportunity to investigate physiology, regulation and nutrition alongside disease mechanisms and microbiology, in the second year. At final year level you will find out more on the medical aspects of human biology, as how diseases are diagnosed and treated, and the importance of nutrition and exercise in maintaining human

health.

The specialist pathway in **Microbiology** has a particular emphasis on understanding the microbial world and its applications to health, the environment and biotechnology. You will begin with an introduction to microbiology covering bacteria, viruses, fungi and algae and some protozoa, learning about their structure and function. In the second year you will focus more on the applied aspects of the topic, including antibiotic resistance, bioremediation, environmental and human microbiota, and biotechnology. At final year level you will find out more on the medical aspects of Microbiology and its importance in the food industry.

Programme Aims

The aims for the Biology Programme are to:

1. Deliver a challenging and motivating scientific programme, via a broad-based course, with the option of focussing on specialised areas – particularly Microbiology, Conservation Biology and Human Biology
2. Provide students with appropriate biological knowledge, understanding and practical skills at local, national and global level
3. Prepare students for employment (managerial/professional and subject specific) and post-graduate study including ethical standards and professional codes of conduct
4. Encourage informed understanding and awareness of the biological world
5. Enable students to become independent problem solvers in a word of biological challenges
6. Improve career opportunities by encouraging engagement with external organisations to include volunteer and placement work.
7. Produce critical and creative thinking graduates, with an informed understanding and awareness of the biosciences.

Programme Intended Learning Outcomes (ILOs)

A Subject-Specific Skills and Knowledge

	Programme Intended Learning Outcomes (ILOs) **On Achieving Level 6**	**On Achieving Level 5**	**On Achieving Level 4**
A1	Competence in a broad range of appropriate practical techniques and skills relevant to the biosciences	Implementation of a broad range of appropriate practical techniques and skills relevant to the biosciences	An understanding of a broad range of appropriate practical techniques and skills relevant to the biosciences
A2	The ability to demonstrate a secure and accurate understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and explain the relationship of evolutionary theory to your area of study	The ability to demonstrate a secure and accurate understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and explain the relationship of evolutionary theory to your area of study	An understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and the importance of evolutionary theory
A3	The ability to access and evaluate bioscience information from a variety of sources and to communicate the principles both orally and in writing in a way that is organised and topical, and recognises the limits of current hypotheses	The ability to access and evaluate bioscience information from a variety of sources and to communicate the principles both orally and in writing in a way that is organised and topical, and recognises the limits of current hypotheses	The ability to use bioscience information from a variety of sources and to communicate the principles both orally and in writing
A4	Construct reasoned arguments to support your position on the ethical and social impact of advances in the biosciences including professional integrity and standards	Construct reasoned arguments to support your position on the ethical and social impact of advances in the biosciences including professional integrity and standards	Construct arguments to support your position on the ethical and social impact of advances in the biosciences
A5	The ability to record data accurately, and to carry out manipulation of data (including qualitative data and statistical analysis, when appropriate)	The ability to record data accurately, and to carry out manipulation of data and statistical analysis	The ability to record data accurately, and to carry out data analysis of simple datasets
A6	The ability to access bioscience databases and use appropriate selection criteria to mine, manipulate and interpret data	The ability to access bioscience databases and manipulate and interpret data	The ability to access bioscience databases and interpret relevant information
A7	An awareness of professional standards, including Good Laboratory Practice for data collection, recording and interpretation	An awareness of appropriate standards for data collection, recording and interpretation	An awareness of appropriate standards and behaviour to ensure safe working practices

B Cognitive and Intellectual Skills

	Programme Intended Learning Outcomes (ILOs) **On Achieving Level 6**	**On Achieving Level 5**	**On Achieving Level 4**
B1	The ability to demonstrate well developed strategies for updating, maintaining and enhancing your knowledge of the biosciences, including cross-disciplinary awareness	The ability to demonstrate well developed strategies for updating, maintaining and enhancing your knowledge of the biosciences, including cross-disciplinary awareness	The ability to demonstrate strategies for updating, maintaining and enhancing your knowledge of the biosciences
B2	The ability to plan, execute and present an independent piece of work, in which qualities such as time management, problem solving and independence are evident, as well as interpretation and critical awareness of the quality of evidence	The ability to plan, execute and present an independent piece of work, in which qualities such as time management, problem solving and independence are evident, as well as interpretation and critical awareness of the quality of evidence	The ability to plan, execute and present an independent piece of work, in which qualities such as time management, problem solving and independence are evident
B3	Apply relevant advanced numerical and data analysis skills to biological data	Apply relevant advanced numerical skills to biological data	Apply relevant numerical skills to biological data
B4	Communicate relatively complex scientific theories and themes to peers and non-scientists	Communicate scientific theories and themes to peers and non-scientists	Communicate science to peers and non-scientists

C Skills for Life and Work

	On achieving Level 6 you will be able to:	**On achieving Level 5 you will be able to:**	**On achieving Level 4 you will be able to:**
C1	**Work Independently** Exercise initiative, independence and personal responsibility to manage your own learning and time.	**Work Independently** Exercise independence and personal responsibility to manage your own learning and time.	**Work Independently** Manage your own learning and time.
C2	**Work with Others** Work collaboratively with others to achieve individual and common goals, solve problems creatively and build interpersonal relationships to flourish in a global workplace.	**Work with Others** Work collaboratively with others to achieve individual and common goals, solve problems creatively.	**Work with Others** Work collaboratively with others.
C3	**Communicate with Impact** Communicate clearly, effectively and impactfully with specialist and non-specialist audiences.	**Communicate with Impact** Communicate clearly and effectively with others.	**Communicate with Impact** Communicate accurately and reliably with others.
C4	**Demonstrate Digital Fluency** Use digital skills productively, critically and ethically to enhance creativity and communication.	**Demonstrate Digital Fluency** Use digital skills productively, critically and ethically.	**Demonstrate Digital Fluency** Use digital skills productively.

Programme content

This programme comprises the following modules

Key:

Core = C

Required = R

Required* = R*

Optional = O

Not available for this status = N/A

Subject offered as single and/or combined award

Biology				Status	
Level	Code	Title	Credits	Single	Joint
4	BIO4000-20	Biological Techniques	20	C	C
4	BIO4003-20	Ecology and Diversity of Life	20	C	C
4	BIO4202-20	Anatomy and Physiology	20	C	C
4	BIO4100-20	The Microbial World	20	R	
4	BIO4101-20	Introduction to Biochemistry	20	R	
4	BIO4104-20	Communicating Science	20	R	
5	BIO5000-20	Biological Systems	20	C	C
5	BIO5001-20	Biology in Society	20	C	C
5	BIO5008-20	Research Skills for Biology	20	R	O
5	BIO5108-20	Conservation Ecology	20	O	O
5	BIO5005-20	Human Pathophysiology & Nutrition	20	O	O
5	BIO5100-20	Food Analysis	20	O	O
5	BIO5101-20	Human Nutrition	20	O	O
5	BIO5006-20	Environmental Management	20	O	O
5	BIO5107-20	Behavioural Ecology	20	O	O
5	BIO5109-20	Microbial Applications and Biotech	20	O	O
5	PSY5107-20	Clinical Psychology	20	O	N/A
5	BMA5100-20	The Marketing Business	20	O	N/A
5	EDU5103-20	Environment and Education	20	O	N/A
5	PUB5103-20	Science Journalism and Publishing	20	O	N/A
5	PPY5100-120	Professional Placement Year	120	O	O
6	BIO6000-20	Dissertation Planning	20	R	O
6	BIO6001-20	Dissertation Publication	20	R	O
6	BIO6104-20	Plants and People	20	O	O
6	BIO6002-20	Environmental Practice	20	O	R
6	BIO6003-20	Medical Biology	20	O	R
6	BIO6704-20	Applied Sports Exercise and Nutrition	20	O	O
6	BIO6707-20	Anatomy, Physiology and Metabolism for Physical Activity	20	O	O
6	BIO6100-20	Food Safety	20	O	O
6	BIO6101-20	Epidemiology and Public Health	20	O	O
6	BIO6102-20	Wildlife Photography	20	O	N/A
6	BIO6108-20	Investigations in Microbiology	20	O	O
6	BIO6111-20	Marine Biology and Conservation	20	O	N/A
6	BIO6110-20	Wildlife Conservation Field Course	20	O**	N/A
6	PUB6001-20	Publishing Industry Project	20	O	N/A

**Access to BIO6110-20 is subject to availability and preparatory work (see module descriptor)

Subject offered with pathways

N.B. Please note that the Biology pathways are discontinued from September 2023. Students currently enrolled on a pathway will complete their studies in line with the table below.

Biology				Pathway	
Level	Code	Title	Credits	Human Biology	Microbiology
4	BIO4000-20	Biological Techniques	20	C	C
4	BIO4003-20	Ecology and Diversity of Life	20	C	C
4	BIO4202-20	Anatomy and Physiology	20	C	C
4	BIO4100-20	The Microbial World	20	C	C
4	BIO4101-20	Introduction to Biochemistry	20	C	C
4	BIO4104-20	Communicating Science	20	C	C
5	BIO5000-20	Biological Systems	20	C	C
5	BIO5001-20	Biology in Society	20	C	C

5	BIO5008-20	Research Skills in Biology	20	R	R
5	BIO5107-20	Behavioural Ecology	20	O	N/A
5	BIO5108-20	Conservation Ecology	20	N/A	O
5	BIO5005-20	Human Pathophysiology and Nutrition	20	R	N/A
5	BIO5100-20	Food Analysis	20	O	O
5	BIO5101-20	Human Nutrition	20	R	N/A
5	BIO5006-20	Environmental Management	20	O	O
5	BIO5109-20	Microbial Applications and Biotech	20	N/A	R
5	PSY5107-20	Clinical Psychology	20	O	N/A
5	BMA5100-20	The Marketing Business	20	O	O
5	EDU5103-20	Environment and Education	20	N/A	N/A
5	PUB5103-20	Science Journalism and Publishing	20	O	O
5	PPY5100-120	Professional Placement Year	120	O	O
6	BIO6005-20	Conservation Biology Dissertation Planning	20	N/A	N/A
6	BIO6007-20	Human Biology Dissertation Planning	20	R	N/A
6	BIO6600-20	Microbiology Dissertation Planning	20	N/A	R
6	BIO6006-20	Conservation Biology Dissertation Publication	20	N/A	N/A
6	BIO6008-20	Human Biology Dissertation Publication	20	R	N/A
6	BIO6601-20	Microbiology Dissertation Publication	20	N/A	R
6	BIO6608-20	Investigations in Microbiology	20	O	R
6	BIO6104-20	Plants and People	20	O	O
6	BIO6002-20	Environmental Practice	20	O	O
6	BIO6003-20	Medical Biology	20	R	O
6	BIO6704-20	Applied Sports and Exercise Nutrition	20	O	N/A
6	BIO6707-20	Anatomy, Physiology and Metabolism for Physical Activity	20	O	N/A
6	BIO6100-20	Food Safety	20	N/A	R
6	BIO6101-20	Epidemiology and Public Health	20	O	O
6	BIO6102-20	Wildlife Photography	20	N/A	N/A
6	BIO6111-20	Marine Biology and Conservation	20	N/A	N/A
6	GEO6101-20	Disaster Risk Reduction	20	N/A	N/A
6	PUB6001-20	Publishing Industry Project	20	O	O

Assessment methods

A range of summative assessment tasks will be used to test the Intended Learning Outcomes in each module. These are indicated in the attached assessment map which shows which tasks are used in which modules.

Students will be supported in their development towards summative assessment by appropriate formative exercises.

Please note: if you choose an optional module from outside this programme, you may be required to undertake a summative assessment task that does not appear in the assessment grid here in order to pass that module.

Work experience and placement opportunities

Biology students are not required to undertake formal work experience or placements as part of their course programme, but we recognise the value of such experience to career development, and provide a range of opportunities for students to engage outside the classroom.

Students that would like to seek a placement experience related to their course have the opportunity to take the Open Work Placement module in the second year of study. This is a well-established module, popular with students and links directly to the Bath Spa Graduate Attribute, helping students in their preparation for graduate employment. The module team support students to create a placement opportunity appropriate to their development and future. The Careers Service are also able to suggest suitable employers in the public and private sector. Placements are often from outside the Biology sector but if an more subject-focused placement is required, additional guidance from the Biology team is available.

This programme can also be taken as a 'Sandwich' degree, which is studied over 4 years and includes a year-long work placement in a sector of your choice. The placement year is completed between years 2 and 3 of your degree and counts for 120 Level 5 credits. During this time you will be able to utilise knowledge gained as part of your studies in a real work environment to gain 'hands on' experience. The University has a dedicated Careers & Employability team to help you find and prepare for a placement. Following your placement year, you will return to University to complete your final year of study.

Additional Costs Table

Module Code & Title	Type of Cost	Cost
BIO5108-20 Conservation Ecology	Contribution towards a residential field trip	Approx. £100
EDU5103-20 Environment and Education	This module includes the option to enrol onto an additional course: DBS required; transport costs; payment of accredited course fees	Approx. £200
BIO6111-20 Marine Biology and Conservation	Contribution towards a residential field trip	Approx. £100-£150
BIO6110-20 Wildlife Conservation Field Course	Contribution towards a residential field trip	Approx. £2500

Graduate Attributes

Graduate Attribute	While at Bath Spa, I will develop my ability to:	This programme will help me to do this through:

Confidently Self-Aware	Reflect on and recognise my unique skills, strengths, and values and be able to apply and articulate them in a range of different contexts.	Embedding reflective practice, and skills self-audit starting at Level 4. Providing regular feedback on progress, through both formative and summative assessment to foster confidence. Ensuring students are aware of where support is available.
Emotionally Attuned	Be mindful of how my actions and emotions impact those around me so I can better navigate difficult situations and build effective interpersonal relationships.	Enabling frequent within-programme interactions with other students, for example in practical or fieldwork settings. By giving and receiving peer feedback on groupwork. Facilitating in class discussion and debate within agreed boundaries. Encouraging a supportive student community, both within and outside of taught sessions. Fostering programme identity through course specific activities and aspirational content.
Inclusive Collaborator	Contribute independently to collaborative projects while working effectively with others, valuing diversity and respecting individual differences.	Embedding group working opportunities and teaching students how to work effectively within a team. Enabling multidisciplinary group working opportunities. Major research projects such as the dissertation also allow students to work in collaborative teams with academic and technical staff.
Adaptable Innovator	Embrace challenges, taking risks where needed and applying individual and collective problem solving.	Embedding problem solving tasks at all levels. Students autonomously and collectively plan projects and research and complete them to deadline. Providing project management opportunities, including the final year empirical Dissertation project.
Critical Thinker	Keep an open mind, ask curious questions and think creatively to gain a deeper and broader understanding of global perspectives and the world around me.	Including critical thinking in multiple assessments and specifically teaching and assessing this component at Level 5 and 6, especially in the dissertation. Encouraging questioning of previous studies and assessing their limitations.
Forward Thinker	Set goals, plan ahead and utilise resources to support my personal ambitions and achieve my own version of success.	Supporting the development of planning skills from Level 4. Assessing specific project planning skills within a group at level 5 and individually at Level 6. Regularly providing students with opportunities to assess their progress and get support when needed. Assessment deadlines are provided at the start of the Semester to enable sufficient planning to take place. Students produce timelines for extended projects.
Ethical Leader	Act with empathy, making decisions grounded in ethical principles while advocating for sustainability and positive social change.	Covering key professional and legal frameworks such as the Human Tissue Act and Environmental Regulations. Ensuring students have an ethical awareness of issues within the Biosciences, for example in the fields of genetics and healthcare. Students are given the opportunity undertake professional practice projects where practical experience of ethical and professional practice is gained in a real-world setting. This also forms a component of research projects, where ethical and ecological assessments are completed (e.g. the dissertation).
Responsible Self-Starter	Be accountable for my actions and decisions while demonstrating creativity, proactivity, and a focus on solutions.	Providing students with clear guidance on how to approach assessments, so they can demonstrate independence. Enabling supportive skills development from Level 4 through to Level 6 and Ensuring students gain progressively more autonomy as they move through the course. Students are provided with numerous resources through the VLE to support their learning, and they are encouraged to make use of these. Support is available where needed but students will need to be proactive to take advantage of this, both within the programme itself and also utilising the central support provided by the University. Academic Advisor meetings support self-assessment of progress.
Compassionately Resilient	Respond to setbacks with a reflective and positive attitude, flexibility and a self-caring approach.	Providing students with opportunities to reflect on progress. Ensuring students know where and how to get the relevant support, so ensure they are confident within themselves. Providing very clear guidance on expectations as clarity fosters positivity and the ability to be flexible.
Digitally Resourceful	Utilise and responsibly leverage existing and emerging technologies to solve problems and communicate.	Building confidence in use of digital resources including specialist software and communication tools. Developing and then assessing students' ability to use fundamental digital skills to collect, analyse and display data. Core modules allow students to gain a practical understanding of essential Biological software for statistical analysis and data interpretation alongside standard computing resources such as Microsoft Office suite and adobe creative cloud. Depending on what optional modules are selected, students are introduced to a range of specialist software , including statistical analysis software, such as R and JASP, and subject specific resources, for example QGIS and Nutritics. Ethical use of AI is also embedded within the programme and clear guidance provided on how this can be used for each assessment.

Modifications

Module-level modifications

Code	Title	Nature of modification	Date(s) of approval and approving bodies	Date modification comes into effect

BIO4001-20	Conservation Biology	Change to assessment	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
BIO6104-20	Plants and People	Change to assessment	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
GEO4000work placem-20	Environment, People and Place	Delete from Single, Major, Joint and Minor and from Human Biology pathway	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
GEO4101-20	Sustainability in Life and Work	Module deleted	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
OMO6100-20	Successful Freelancing	Module deleted	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
OMO6101-20	Leadership and Management	Module deleted	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
BIO4104-20	Communicating Science	Change to module status	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
BIO6105-20	Marine Biology	Module deleted	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
PSY6101-20	Evolutionary Neuroscience and the Origin of the Human Mind	New module	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
PSY6105-20	Applied Behavioural Psychology	New module	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
BIO6100-20	Food Safety	Change to module status	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
BIO4102-20	Global Food Issues	Change to module status	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
PSY4000-20	Introduction to comparative and cognitive Neuroscience	New module	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
PSY4001-20	Introduction to developmental and social psychology	New module	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
PSY6100-20	Child and Adolescent Neuropsychology	New module	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
PSY6103-20	Clinical Neuropsychology	Module deleted	03 April 2019, CoLA Learning, Teaching Quality Subcommittee	2019/20
BIO6102-20	Wildlife Photography	Change to semester of delivery	CoLA Learning, Teaching and Quality Sub-committee, 22 November 2018	2019/20
BIO4102-20	Global Food Issues	Delete module	Curriculum Committee (fixed Level 4 project) June 2020	2021/22
BIO4103-20	Food, Nutrition and Health	Delete module	Curriculum Committee (fixed Level 4 project) June 2020	2020/21
GEO4000-20	Environment, People and Place	Delete module	Curriculum Committee (fixed Level 4 project) June 2020	2020/21
PSY4000-20	Introduction to comparative and cognitive Neuroscience	Delete module	Curriculum Committee (fixed Level 4 project) June 2020	2020/21
PSY4001-20	Introduction to developmental and social psychology	Delete module	Curriculum Committee (fixed Level 4 project) June 2020	2020/21
BIO4001-20	Conservation Biology	Module status change	Curriculum Committee (fixed Level 4 project) June 2020	2020/21
BIO4100-20	The Microbial World	Module status change	Curriculum Committee (fixed Level 4 project) June 2020	2020/21
BIO4104-20	Introduction to Biochemistry	Module status change	Curriculum Committee (fixed Level 4 project) June 2020	2020/21
BIO4101-20	Communicating Science	Module status change	Curriculum Committee (fixed Level 4 project) June 2020	2020/21
BIO5000-20	Biological Systems	Assessment change	Approved via Chair's action 01/12/2020	2021/2022
BIO5003-20	Ecology and Biodiversity	Assessment change	Approved via Chair's action 01/12/2020	2021/2022
PSY6100-20	Child and Adolescent Neuropsychology	Assessment change	Approved via Chair's action 01/12/2020	2021/2022
PSY5102-20	Abnormal Psychology	Module deletion	Approved via Chair's action 21/01/2021	2021/22
PSY5107-20	Clinical Psychology	New module	Approved via Chair's action 21/01/2021	2021/22
PSY6105-20	Applied Behavioural Psychology	Module status change	Curriculum Committee December 2020	2021/22
BIO6003-20	Medical Biology	Module status change	approved Curriculum Committee 15 Dec 2021	2022/23
BIO6101-20	Epidemiology and Public Health	Module status change	approved Curriculum Committee 15 Dec 2021	2022/23
BIO6100-20	Food Safety	Module status change	approved Curriculum Committee 15 Dec 2021	2022/23
GEO6101-20	Disaster Risk Reduction	New Module	approved Curriculum Committee 15 Dec 2021	2022/23
PSY6107-20	Advanced Topics in Psychology	New Module	SQMC 08 March 2022	2022/23
PSY6101-20	Evolutionary Neuroscience and the Origin of the Human Mind	Module deleted	SQMC 08 March 2022	2022/23
PSY6100-20	Child and Adolescent Neuropsychology	Module deleted	SQMC 08 March 2022	2022/23
PSY5003-20	Biological and Cognitive Psychology	Module deleted	SQMC 08 March 2022	2022/23
PSY6105-20	Applied Behavioural Psychology	Module deleted	SQMC 08 March 2022	2022/23
BIO4002-20	Human Biology	Module deleted	SQMC November 2022	2023/24
BIO4202-20	Anatomy and Physiology	New Module	SQMC November 2022	2023/24
BIO5000-20	Biological Systems	Updates to Brief Description, Outline Syllabus and assessments	SQMC November 2023	2024/25
PSY6107-20	Advanced Topics in Psychology	Assessment change	Sciences SQMC March 2024	2024/2025
BIO5001-20	Biology in Society	Updates to Brief Description, Outline Syllabus and assessments	Sciences SQMC March 2024	2024/2025
BIO5100-20	Food Analysis	Updates to description and assessment change	Sciences SQMC March 2024	2024/25
BIO5101-20	Human Nutrition	Updates to description, syllabus, ILOs and assessment change	Sciences SQMC March 2024	2024/25
BIO4000-20	Biological Techniques	Updates to Assessment	Curriculum Approval Panel Chair's Action August 2024	2024/25
BIO4100-20	The Microbial World	Updates to Outline Syllabus	Curriculum Approval Panel Chair's Action August 2024	2024/25
BIO4003-20	Ecology and Diversity of Life	Updates to ILOs	Curriculum Approval Panel Chair's Action August 2024	2024/25

BIO5008-20	Research Skills for Biology	Updates to ILOs	Curriculum Approval Panel Chair's Action August 2024	2024/25
BIO6101-20	Epidemiology and Public Health	Change of Semester	SQMC November 2024	2025/26
BIO4104-20	Communicating Science	Updates to outline syllabus, ILOs & assessments	SQMC November 2024	2025/26

Programme-level modifications

Nature of modification	Date(s) of approval and approving bodies	Date modification comes into effect
Addition of named pathway: Microbiology	16 April 2019, Programme Approval and Review Sub-committee	2019/20 (for Level 4 modules) 2020/21 (for Level 5 modules) 2021/22 (for Level 6 modules)
BIO4001 Conservation Biology replaced with BIO4003 Ecology & Diversity of Life	Curriculum Committee December 2022	2023/24
New module added: BIO5109-20 Microbial Applications and Biotech	Curriculum Approval Panel December 2023	2024/25
BIO5003-20 Ecology & Biodiversity replaced with BIO5108-20 Conservation Ecology	Curriculum Approval Panel December 2023	2024/25
BIO5004-20 Applied Microbiology deleted	Curriculum Approval Panel December 2023	2024/25
BIO5105-20 Biotechnology deleted	Curriculum Approval Panel December 2023	2024/25
Additional Programme Aim added	Curriculum Approval Panel Chair's Action August 2024	2024/25
BIO5102-20 Biology Work Placement deleted	Curriculum Approval Panel December 2024	2025/26
PSY6107-20 Advanced Topics in Psychology deleted	Curriculum Approval Panel December 2024	2025/26
BIO6103-20 Animal Behaviour deleted	Curriculum Approval Panel December 2024	2025/26
EDU6108-20 Learning in Science deleted	Curriculum Approval Panel December 2024	2025/26
BIO6004 Nutrition and Exercise Science replaced with BIO6704 Applied Sports and Exercise Nutrition	Curriculum Approval Panel December 2024	2025/26
BIO5107-20 Behavioural Ecology added as Optional	Curriculum Approval Panel December 2024	2025/26
BIO6707-20 Anatomy, Physiology and Metabolism for Physical Activity added	Curriculum Approval Panel December 2024	2025/26
BIO6110-20 Wildlife Conservation Field Course added as Optional	Curriculum Approval Panel December 2024	2025/26

Attached as appendices:

1. Programme structure diagram
2. Map of module outcomes to level/programme outcomes
3. Assessment map
4. Module descriptors

Appendix 1: Programme Structure Diagram - BSc (Hons) Biology

Single Honours		**Joint Honours**	
Level 4			
Semester 1	**Semester 2**	**Semester 1**	**Semester 2**
Core Modules		**Core Modules**	
BIO4000-20 Biological Techniques	BIO4003-20 Ecology and Diversity of Life BIO4202-20 Anatomy and Physiology	BIO4000-20 Biological Techniques	BIO4003-20 Ecology and Diversity of Life BIO4202-20 Anatomy and Physiology
Required Modules		**Required Modules**	
BIO4101-20 Introduction to Biochemistry BIO4104-20 Communicating Science	BIO4100-20 The Microbial World	N/A	N/A
Rule Notes: N/A		**Rule Notes:** Joint students take the remaining 60 credits from the second subject at Level 4.	
Level 5			
Core Modules		**Core Modules**	
BIO5000-20 Biological Systems	BIO5001-20 Biology in Society	BIO5000-20 Biological Systems	BIO5001-20 Biology in Society
Required Modules		**Required Modules**	
BIO5008-20 Research Skills in Biology	N/A	N/A	N/A
Optional Modules		**Optional Modules**	

Single Honours		Joint Honours	
BIO5108-20 Conservation Ecology BIO5107-20 Behavioural Ecology BIO5101-20 Human Nutrition BIO5109-20 Microbial Applications and Biotech BMA5100-20 The Marketing Business	BIO5005-20 Human Pathophysiology and Nutrition BIO5100-20 Food Analysis BIO5006-20 Environmental Management PSY5107-20 Clinical Psychology BMA5100-20 The Marketing Business PUB5103-20 Science Journalism and Publishing EDU5103-20 Environment and Education	BIO5008-20 Research Skills in Biology BIO5107-20 Behavioural Ecology BIO5108-20 Conservation Ecology BIO5101-20 Human Nutrition BIO5109-20 Microbial Applications and Biotech	BIO5005-20 Human Pathophysiology and Nutrition BIO5100-20 Food Analysis BIO5006-20 Environmental Management
Rule Notes: N/A		**Rule Notes:** Joint students must take 40 credits in each subject. The remaining 80 credits can be made up of Optional modules from either subject.	
Optional Professional Placement Year 120 credits			
Level 6			
Required Modules		**Required Modules**	
BIO6000-20 Dissertation Planning	BIO6001-20 Dissertation Publication	BIO6002-20 Environmental Practice	BIO6003-20 Medical Biology
Required* Modules		**Required* Modules**	
N/A	N/A	N/A	N/A
Optional Modules		**Optional Modules**	
BIO6101-20 Epidemiology and Public Health BIO6104-20 Plants and People BIO6002-20 Environmental Practice BIO6707-20 Anatomy, Physiology and Metabolism for Physical Activity BIO6100-20 Food Safety BIO6110-20 Wildlife Conservation Field Course	BIO6003-20 Medical Biology BIO6102-20 Wildlife Photography BIO6108-20 Investigations in Microbiology BIO6111-20 Marine Biology & Conservation BIO6704 Applied Sports and Exercise Nutrition PUB6001-20 Publishing Industry Project	BIO6000-20 Dissertation Planning BIO6101-20 Epidemiology and Public Health BIO6104-20 Plants and People BIO6707-20 Anatomy, Physiology and Metabolism for Physical Activity BIO6100-20 Food Safety	BIO6001-20 Dissertation Publication BIO6108-20 Investigations in Microbiology BIO6704 Applied Sports and Exercise Nutrition
Rule Notes: Access to BIO6110-20 is subject to availability and preparatory work (see module descriptor)		**Rule Notes:** Joint students must take 40 credits in each subject. The remaining 40 credits can be made up of Optional modules from either subject.	

Structure for Biology (Human Biology)

Modules in italics are Modules outside the Biology programme

Semester 1	Semester 2
Level 4 (120 credits core modules)	
BIO4000-20 Biological Techniques (C)	BIO4003-20 Ecology and Diversity of Life (C)
BIO4101-20 Introduction to Biochemistry (C)	BIO4002-20 Human Biology (C)
BIO4104-20 Communicating Science (C)	BIO4100-20 The Microbial World (C)
Level 5 (80 credits core/required modules)	
BIO5000-20 Biological Systems (C)	BIO5001-20 Biology in Society (C)
BIO5008-20 Research Skills in Biology (R)	BIO5005-20 Human Pathophysiology and Nutrition (R)
BIO5101-20 Human Nutrition (O)	BIO5100-20 Food Analysis (O)
BMA5100-20 The Marketing Business (O)	BIO5006-20 Environmental Management (O)
	PSY5107-20 Clinical Psychology (O)
	PUB5103-20 Science Journalism and Publishing (O)
	BMA5100-20 The Marketing Business (O)
PPY5100-120 Professional Placement Year (O)	
Level 6 (80 credits required modules)	
BIO6007-20 Human Biology Dissertation Planning (R)	BIO6008-20 Human Biology Dissertation Publication (R)
BIO6704 Applied Sports and Exercise Nutrition (R)	BIO6003-20 Medical Biology (R)
BIO6104-20 Plants and People (O)	BIO6108-20 Investigations in Microbiology (O)
BIO6002-20 Environmental Practice (O)	*PUB6001-20 Publishing Industry Project (O)*
BIO6707-20 Anatomy, Physiology and Metabolism for Physical Activity	
BIO6101-20 Epidemiology and Public Health (O)	

Structure for Biology (Microbiology)

Modules in italics are Modules outside the Biology programme

Semester 1	Semester 2
Level 4 (120 credits core modules)	
BIO4000-20 Biological Techniques (C)	BIO4003-20 Ecology and Diversity of Life (C)
BIO4101-20 Introduction to Biochemistry (C)	BIO4002-20 Human Biology (C)
BIO4104-20 Communicating Science (C)	BIO4100-20 The Microbial World (C)

Level 5 (80 credits core/required modules)	
BIO5000-20 Biological Systems (C)	BIO5001-20 Biology in Society (C)
BIO5008-20 Research Skills in Biology (R)	BIO5006-20 Environmental Management (O)
BIO5109-20 Microbial Applications and Biotech (R)	BIO5100-20 Food Analysis (O)
BIO5108-20 Conservation Ecology (O)	*PUB5103-20 Science Journalism and Publishing (O)*
BMA5100-20 The Marketing Business (O)	*BMA5100-20 The Marketing Business (O)*
PPY5100-120 Professional Placement Year (O)	
Level 6 (80 credits required modules)	
BIO6600-20 Microbiology Dissertation Planning (R)	BIO6601-20 Microbiology Dissertation Publication (R)
BIO6100-20 Food Safety (R)	BIO6108-20 Investigations in Microbiology (R)
BIO6104-20 Plants and People (O)	BIO6003-20 Medical Biology (O)
BIO6002-20 Environmental Practice (O)	*PUB6001-20 Publishing Industry Project (O)*
BIO6101-20 Epidemiology and Public Health (O)	

Appendix 2: Map of Intended Learning Outcomes

Level	Module Code	Module Title	Status (C,R,R*,O) [4]	Intended Learning Outcomes														
				Subject-specific Skills and Knowledge							Cognitive and Intellectual Skills				Skills for Life and Work			
				A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	C1	C2	C3	C4
4	BIO4000-20	Biological Techniques	C	x	x	x		x	x	x	x	x	x	x	x	x	x	x
4	BIO4003-20	Ecology and Diversity of Life	C	x		x		x		x	x	x	x			x	x	
4	BIO4202-20	Anatomy and Physiology	C	x		x	x	x		x	x		x		x	x	x	
4	BIO4100-20	The Microbial World	C/R	x	x		x			x		x			x	x	x	
4	BIO4101-20	Introduction to Biochemistry	C/R	x	x			x		x		x				x	x	
4	BIO4104-20	Communicating Science	C/R	x	x	x								x			x	
5	BIO5000-20	Biological Systems	C	x	x	x	x	x		x		x	x			x	x	x
5	BIO5001-20	Biology in Society	C			x	x		x		x			x	x		x	x
5	BIO5008-20	Research Skills in Biology	R/O	x		x	x	x	x	x	x	x	x	x	x	x	x	x
5	BIO5108-20	Conservation Ecology	R/O	x	x	x	x	x		x		x	x	x	x	x		x
5	BIO5006-20	Environmental Management	R/O	x		x	x	x	x			x	x	x	x	x	x	x
5	BIO5005-20	Human Pathophysiology and Nutrition	R/O	x		x	x	x	x	x	x	x	x	x	x	x	x	x
5	BIO5100-20	Food Analysis	O	x		x	x		x	x		x		x	x	x	x	
5	BIO5101-20	Human Nutrition	O/R	x		x	x	x	x	x	x	x		x	x		x	
5	BIO5107-20	Behavioural Ecology	O	x	x	x		x	x		x	x	x	x	x	x		
5	BIO5109-20	Microbial Applications and Biotech	O	x	x	x	x		x		x			x			x	x
5	PSY5003-20	Biological and Cognitive Psychology	O	x		x					x				x			x
5	PSY5107-20	Clinical psychology	O	x		x			x		x				x			x
5	BMA5100-20	The Marketing Business	O					x		x					x	x	x	x
5	EDU5103-20	Environment and Education	O			x	x								x		x	
5	PUB5103-20	Science Journalism and Publishing	O			x	x		x					x	x		x	x
5	PPY5100-120	Professional Placement Year	O	x						x	x			x	x	x	x	x
6	BIO6000-20	Dissertation Planning	R/O	x		x	x	x	x		x	x		x	x		x	
6	BIO6001-20	Dissertation Publication	R/O	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	BIO6005-20	Conservation Biology Dissertation Planning	R	x		x	x	x	x		x	x		x	x		x	
6	BIO6006-20	Conservation Biology Dissertation Publication	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	BIO6007-20	Human Biology Dissertation Planning	R	x		x	x	x	x		x	x		x	x		x	
6	BIO6008-20	Human Biology Dissertation Publication	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	BIO6600-20	Microbiology Dissertation Planning	R	x		x	x	x	x		x	x		x	x		x	
6	BIO6601-20	Microbiology Dissertation Publication	R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	BIO6104-20	Plants and People	O			x	x					x		x	x	x	x	x
6	BIO6002-20	Environmental Practice	R*/O	x		x	x	x	x	x		x			x	x	x	x
6	BIO6003-20	Medical Biology	R/R*/O	x		x	x		x	x	x	x			x		x	
6	BIO6704-20	Applied Sports and Exercise Nutrition	O	x		x	x			x	x	x			x		x	
6	BIO6707-20	Anatomy, Physiology and Metabolism for Physical Activity	R/O	x	x	x	x				x	x		x	x		x	
6	BIO6100-20	Food Safety	R/O	x		x		x		x		x			x	x	x	x
6	BIO6101-20	Epidemiology and Public Health	R*/O	x		x		x	x		x	x	x	x	x	x	x	
6	BIO6102-20	Wildlife Photography	O	x						x		x		x	x	x	x	x
6	BIO6108-20	Investigations in Microbiology	R/O	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	BIO6110-20	Wildlife Conservation Field Course	O	x		x					x	x		x			x	
6	BIO6111-20	Marine Biology and Conservation	O	x		x	x	x				x	x	x	x		x	
6	PUB6001-20	Publishing Industry Project	O			x	x		x			x			x	x	x	

[4] C = Core; R = Required; R* = Required*; O = Optional

Appendix 3: Map of Summative Assessment Tasks by Module

Level	Module Code	Module Title	Status (C,R,R*,O) [5]	Assessment method															
				Coursework								Practical						Examinatio	
				Workbook	Scientific paper	Report	Essay	Review	Proposal	Dissertation	Portfolio	Practical report	Practical project	Practical skills	Dietary analysis	Data analysis	Presentation	Viva	Written examination
4	BIO4000-20	Biological Techniques	C		1x									1x					
4	BIO4003-20	Ecology and Diversity of Life	C								1x						1x		
4	BIO4202-20	Anatomy and Physiology	C																
4	BIO4100-20	The Microbial World	C/R					1x						1x					
4	BIO4101-20	Introduction to Biochemistry	C/R									1x							
4	BIO4104-20	Communicating Science	C/R	1x							1x								
5	BIO5000-20	Biological Systems	C		1x						1x								
5	BIO5001-20	Biology in Society	C				1x				1x								
5	BIO5008-20	Research Skills in Biology	R/O									1x					1x		
5	BIO5108-20	Conservation Ecology	R/O								1x						1x		
5	BIO5006-20	Environmental Management	R/O														1x		
5	BIO5005-20	Human Pathophysiology and Nutrition	R/O													1x			1x
5	BIO5100-20	Food Analysis	O								1x								1x
5	BIO5101-20	Human Nutrition	O/R			1x									1x				
5	BIO5107-20	Behavioural Ecology	O/R		1x				1x										
5	BIO5109-20	Microbial Applications and Biotech	O					1x										1x	
5	PSY5107-20	Clinical Psychology	O										1x						1x
5	BMA5100-20	The Marketing Business	O			1x											1x		
5	EDU5103-20	Environment and Education	O								1x						1x		
5	PUB5103-20	Science Journalism and Publishing	O			1x		1x											
5	PPY5100-120	Professional Placement Year	O						1x		1x								
6	BIO6000-20	Dissertation Planning	R/O					1x	1x										
6	BIO6001-20	Dissertation Publication	R/O							1x									
6	BIO6005-20	Conservation Biology Dissertation Planning	R					1x	1x										
6	BIO6006-20	Conservation Biology Dissertation Publication	R							1x							1x		
6	BIO6007-20	Human Biology Dissertation Planning	R					1x	1x										
6	BIO6008-20	Human Biology Dissertation Publication	R							1x							1x		
6	BIO6600-20	Microbiology Dissertation Planning	R					1x	1x										
6	BIO6601-20	Microbiology Dissertation Publication	R							1x							1x		
6	BIO6104-20	Plants and People	O					1x									1x		
6	BIO6002-20	Environmental Practice	R*/O			1x											1x		

6	BIO6003-20	Medical Biology	R/R*/O										1x	1x					
6	BIO6704-20	Applied Sports and Exercise Nutrition	R/O			1x													1x
6	BIO6707-20	Anatomy, Physiology and Metabolism for Physical Activity	O			1x							1x						
6	BIO6100-20	Food Safety	R/O			1x						1x							
6	BIO6101-20	Epidemiology and Public Health	O			1x											1x		
6	BIO6102-20	Wildlife Photography	O			1x											1x		
6	BIO6108-20	Investigations in Microbiology	R/O					1x			1x								
6	BIO6111-20	Marine Biology and Conservation	O				1x					1x							
6	BIO6110-20	Wildlife Conservation Field Course	O			1x							1x						
6	PUB6001-20	Publishing Industry Project	O			1x													

[5] C = Core; R = Required (ie required for this route); R* = Required*; O = Optional