

Programme Specification for Programme Leading to: BSc Life Sciences BSc Life Sciences with Placement

Applicable for all undergraduate students **starting at FHEQ Level 4** in 2021/22

<u>Version No.</u>	<u>Date</u>	<u>Notes – QA USE ONLY</u>	<u>QA</u>
1	May-21	2021/22 version of the programme specification created with CS2800 replaced with LS28BB, CS2600 replaced with LS26AA, CS3604 replaced with LS36CC, CS3602 replaced with LS36DD	RJC

Undergraduate Programme	
1. Awarding institution	Brunel University London
2. Teaching institution(s)	Brunel University London
3. Home college/department/division	College of Health, Medicine and Life Sciences /Department of Life Sciences/Division of Biosciences
4. Contributing college/department/division/ associated institution	College of Engineering Design and Physical Sciences College of Business, Arts and Social Sciences Brunel Language School
5. Programme accredited by	N/A
6. Final award(s) and FHEQ Level of Award	BSc (Hons) Life Sciences BSc (Hons) Life Sciences with Placement FHEQ Level 6
7. Programme title	BSc Life Sciences BSc Life Sciences with Placement
8. Programme type (Single honours/joint)	Single honours
9. Normal length of programme (in months) for each mode of study	36 months for BSc Life Sciences 48 months for BSc Life Sciences with Placement
10. Maximum period of registration for each mode of study	Normal or standard duration plus 3 years
11. Variation(s) to September start	None for standard levels For LBIC entry see: "LBIC Life Sciences Foundation"
12. Modes of study	Full-Time Thick Sandwich
13. Modes of delivery	Standard (on campus)
14. Intermediate awards and titles with FHEQ Level of Award	Cert HE (FHEQ Level 4) in Applied Sciences Dip HE (FHEQ Level 5) in Applied Science Dip HE (FHEQ Level 5) in Applied Science with Placement BSc (Ord) Applied Sciences (FHEQ Level 6) BSc (Ord) in Applied Science (FHEQ Level 6) with Placement
15. UCAS code	LF01, LFO2 with Placement

16. HECoS Code	100345 (Biological Sciences)
17. Route Code	C900ULIFESCI
18. Relevant subject benchmark statements and other external and internal reference points used to inform programme design.	UK Quality Code for Higher Education QAA Subject Benchmark Statement (There are currently no Life Sciences subject benchmarks, however benchmark statements for Psychology (2016), Hospitality, Leisure, Sport and Tourism (2008; 2016), and Biomedical Science (2015) have informed the design). Brunel 2030 Brunel Placement Learning Policy, as published under the 'Placements' section of the ' Managing Higher Education Provision with Others ' page.
19. Admission Requirements	Details of entry requirements are provided on the University's and College website. Levels of English for non-native speakers are outlined on Brunel International's language requirements pages.
20. Other relevant information (e.g. study abroad, additional information on placements)	Optional work placement is available after completion of FHEQ level 5- year 2 (thick sandwich mode) leading to the award of BSc (Hons) Life Sciences with Placement.
21. Programme regulations not specified in Senate Regulation 2. Any departure from regulations specified in Senate Regulation 2 must be stated here and approved by Senate.	The Board of Examiners may award students who are registered on the Placement programmes the BSc (Hons) Life Sciences, if they meet the requirements for the award but have failed to meet the requirements for the award for which they are registered.
22. Further information about the programme is available from the College website.	Link to programme information on the College website.

23. EDUCATIONAL AIMS OF THE PROGRAMME

Interdisciplinary study is increasingly being recognised as vital for pushing fields forward and accelerating discovery. Life Sciences BSc graduates will be interdisciplinary thinkers equipped with the skills to enable them to analytically and creatively embrace new ideas, and to develop collaborative skills working with others from different backgrounds. The Life Sciences programme is a flexible degree allowing students to draw together various specific elements of the life sciences including from biochemistry, cell biology, genetics, infection & immunity, cognitive neuroscience, evolution and behaviour, sport and exercise sciences, and environmental health, as well as computational data analysis. It offers dynamic, flexible, but structured interdisciplinary study with streams that enable specialisation, but also with sufficient breadth to allow students to graduate with wide-ranging and distinctive combinations of knowledge and skills. Synoptic study is embedded at every level of the programme to ensure students appreciate the links between areas of specialisation. Moreover, the programme also seeks to develop graduates with excellent practical, analytical and transferable skills applicable to a wide range of employment opportunities. Students will be encouraged to exercise independence, initiative and responsibility and to appreciate the need for continued professional development throughout their careers. Students may also broaden their knowledge further by selecting optional modules in a wide range of non-science subjects. This would allow students to be able to gain unique perspectives and novel combinations of skills thus allowing them to explore new and emerging career paths.

The degree will generate graduates with a variety of different scientific educations. On completion of the degree, students will have the ability to see science in a modern, interdisciplinary context having cultivated transferable skills and a broad range of problem solving abilities. It will equip graduates with highly valued employability skills in communication, critical thinking, data analysis, experimental techniques, information technology, team working and time management. There are many careers in the Life Sciences that would be open to our graduates in the public or the private sector. These include the life science industries, clinical genetics laboratories, clinical trials and the regulatory sector, in sales and marketing related to healthcare and diagnostic products, in diagnostic pathology and clinical laboratories, forensic laboratories, government or charity-funded research laboratories and institutes, in research and development for the pharmaceutical and biotechnology industries, diagnostics, medical devices and laboratory instrumentation industries, and research laboratories in universities. Further opportunities will exist in areas such as environmental regulation and monitoring, conservation, animal welfare. Alternatively, our graduates would also be well equipped to pursue many career options outside of science in business, finance and information technology, for example, in scientific journalism, in business administration as a management consultant or in finance and banking. Careers in the Public Sector would also be open to such graduates, such as in science teaching or in the civil service. Students who have specialised in a defined, interdisciplinary, scientific field may proceed to study for a wide range of possible postgraduate degree and doctoral programmes.



24. PROGRAMME AND INTERMEDIATE LEARNING OUTCOMES

The programme provides opportunities for students to develop and demonstrate knowledge and understanding (K) cognitive (thinking) skills (C) and other skills and attributes (S) in the following areas:

FHEQ Level	Category (K = knowledge and understanding, C = cognitive (thinking) skills, S = other skills and attributes)	Learning Outcome	Associated Assessment Blocks Code(s)	Associated Study Blocks Code(s)	Associated Modular Blocks Code(s)
Year 1 and FHEQ Level 4					
	K	Demonstrate knowledge of topics in life sciences	LS1800 LS1806 LS1801 LS1802 LS1804 LS1803 LS1805	LS1701 BB1702 LS1704 LS1700 LS1705	PY1607 SP1605 SP1607
	K	Demonstrate knowledge of the interrelationship of disciplines within life sciences	LS1800	LS1702 BB1702 LS1701 LS1705 LS1704 LS1700	PY1607
	K	Demonstrate a basic understanding of fundamental concepts of research methods and analysis techniques including maths and statistics	LS1800 LS1803	LS1702 LS1705 LS1700	
	C	Apply subject knowledge to address problems in the life sciences	LS1800 LS1806 LS1801 LS1802 LS1804 LS1803 LS1805	LS1702 BB1702 LS1701 LS1705 LS1704 LS1700	PY1607 SP1605 SP1607
	C	Analyse and interpret data	LS1800 LS1803	LS1700 LS1705	
	C	Define and review appropriate literature	LS1800 LS1806 LS1802	LS1700	PY1607
	S	Communicate basic scientific topics	LS1800 LS1806 LS1801 LS1802 LS1804 LS1805	LS1702 BB1702 LS1701 LS1705 LS1704 LS1700	PY1607 SP1605 SP1607

	S	Report on theories, methods and evidence in the Life Sciences	LS1800	LS1705	PY1607
Year 2 and FHEQ Level 5					
	K	Demonstrate knowledge and understanding of two of the major themes in life sciences and related topical scientific issues	LS2800 LS2801 LS2807 LS2803 LS2808 LS2804 LS2809 LS2805 LS2810 LS2806 LS28BB BB2818 SP2800 SP2801 SP2804 SP2805 PY2801	SP2701 SP2704 SP2705 SP2700 BB2730 BB2710 BB2704 BB2722 BB2711 BB2709 BB2705 LS2708 BB2716 CS1702 BB2708 LS2701 PY2701 PY2704	LS26AA ES2601 SP2604 SP2605 SP2606 PY2603
	K	Identify the complexity and interrelationship of the chosen themes	LS2800 LS2801 LS2802 LS2807 LS2803 LS2808 LS2804 LS2809 LS2805 LS2810 LS2806 LS28BB BB2818 SP2800 SP2801 SP2804 SP2805 PY2801	SP2701 SP2704 SP2705 SP2700 BB2730 BB2710 BB2704 BB2722 BB2711 BB2709 BB2716 CS1702 BB2708 LS2701 PY2701 PY2704	PY2602 LS26AA ES2601 SP2604 SP2605 SP2606 PY2603
	K	Apply subject knowledge to address familiar and unfamiliar problems	LS2800 LS2807 LS2803 LS2808 LS2804 LS2809 LS2805 LS2810 LS2806 LS28BB BB2818 SP2800 SP2801 SP2804 SP2805 PY2801	SP2701 SP2704 SP2705 SP2700 BB2730 BB2710 BB2704 BB2722 BB2711 BB2709 BB2716 CS1702 BB2708 PY2701 PY2704	PY2602 LS26AA ES2601 SP2604 SP2605 SP2606 PY2603
	K	Demonstrate knowledge of fundamental concepts in computational approaches to Life Sciences, including bioinformatics	LS2801 LS2802 LS28BB	LS2702 CS1702	LS26AA

	C	Analyse and interpret data in the context of scientific literature	LS2800 LS2802 PY2801	PY2701 PY2704	PY2602 LS26AA ES2601 PY2603
	C	Evaluate, define and review appropriate literature	LS2800 LS2807 LS2803 LS2808 LS2804 LS2809 LS2805 LS2810 LS2806 LS28BB BB2818 SP2800 SP2801 SP2804 SP2805 PY2801	PY2701 PY2704	PY2602 PY2603 LS26AA ES2601 SP2604 SP2605 SP2606
	C	Assess the merits and weaknesses of theories, methods and evidence in the Life Sciences	LS2800 LS2807 LS2803 LS2808 LS2804 LS2809 LS2805 LS2810 LS2806 LS28BB BB2818 PY2801	SP2701 SP2704 SP2705 SP2700 BB2730 BB2710 BB2704 BB2722 BB2711 BB2709 BB2716 CS1702 BB2708 PY2701 PY2704	PY2602 LS26AA ES2601 SP2604 SP2605 SP2606 PY2603
	S	Communicate scientific data and literature	LS2800 LS2802 PY2801	SP2701 SP2704 SP2705 SP2700 BB2730 BB2710 BB2704 BB2722 BB2711 BB2709 BB2716 CS1702 BB2708 PY2701 PY2704	PY2602 LS26AA ES2601 SP2604 SP2605 SP2606 PY2603
Year 3 and FHEQ Level 6					
	K	Demonstrate an in-depth knowledge and understanding of selected topics in life sciences including an awareness of the wider implications, debate and controversies surrounding these topics	LS3800 SP3801 SP3805 SP3809 SP3819 LS3808 LS3801 LS3810 LS3803 LS3812 LS3805 LS3809 LS3802	SP3701 SP3705 SP3709 SP3706 BB3733 BB3703 BB3707 BB3706 BB3701 BB3707	LS3600 PY3618 PY3601 PY3621 PY3617 PY3610 ES3618 ES3619 LS36DD LS36CC SP3608

			LS3811 LS3804 LS3813 LS3806 LS3814 LS3807		SP3609 SP3606
	K	Evaluate the way in which research is carried out under the chosen themes	LS3800	SP3701 SP3705 SP3709 SP3706 BB3733 BB3703 BB3707 BB3706 BB3701 BB3707	LS3600 PY3618 PY3601 PY3621 PY3617 PY3610 ES3618 ES3618 ES3619 LS36DD LS36CC SP3608 SP3609 SP3606
	K	Design and conduct a scientific investigation with due regard for ethical issues and appropriate protocols			LS3600
	C	Apply subject knowledge to address complex familiar and unfamiliar problems	SP3801 SP3805 SP3809 SP3819 LS3808 LS3801 LS3810 LS3803 LS3812 LS3805 LS3809 LS3802 LS3811 LS3804 LS3813 LS3806 LS3814 LS3807	SP3701 SP3705 SP3709 SP3706 BB3733 BB3703 BB3707 BB3706 BB3701 BB3707	LS3600 PY3618 PY3601 PY3621 PY3617 PY3610 ES3618 ES3619 LS36DD LS36CC SP3608 SP3609 SP3606
	C	Critically evaluate, define, interpret and review appropriate literature.	LS3800 SP3801 SP3805 SP3809 SP3819 LS3808 LS3801 LS3810 LS3803 LS3812 LS3805 LS3809 LS3802 LS3811 LS3804 LS3813 LS3806 LS3814 LS3807	SP3701 SP3705 SP3709 SP3706 BB3733 BB3703 BB3707 BB3706 BB3701 BB3707 CS2002	LS3600 PY3618 PY3601 PY3621 PY3617 PY3610 ES3618 ES3619 LS36DD LS36CC SP3608 SP3609 SP3606

C	Critically analyse, interpret and explain data, evaluating it in light of current literature	SP3801 SP3805 SP3809 SP3819 LS3808 LS3801 LS3810 LS3803 LS3812 LS3805 LS380 LS3802 LS3811 LS3804 LS3813 LS3806 LS3814 LS3807	SP3701 SP3705 SP3709 SP3706 BB3733 BB3703 BB3707 BB3706 BB3701 BB3707	LS3600 PY3618 PY3601 PY3621 PY3617 PY3610 ES3618 ES3619 LS36DD LS36CC SP3608 SP3609 SP3606
C	Organise, assess and present reasoned, critical and comprehensive arguments backed up by evidence	LS3800 SP3801 SP3805 SP3809 SP3819 LS3808 LS3801 LS3810 LS3803 LS3812 LS3805 LS3809 LS3802 LS3811 LS3804 LS3813 LS3806 LS3814 LS3807	SP3701 SP3705 SP3709 SP3706 BB3733 BB3703 BB3707 BB3706 BB3701 BB3707	LS3600 PY3618 PY3601 PY3621 PY3617 PY3610 ES3618 ES3619 LS36DD LS36CC SP3608 SP3609 SP3606
S	Effectively communicate complex scientific information	LS3800 SP3801 SP3805 SP3809 SP3819 LS3808 LS3801 LS3810 LS3803 LS3812 LS3805 LS3809 LS3802 LS3811 LS3804 LS3813 LS3806 LS3814 LS3807	SP3701 SP3705 SP3709 SP3706 BB3733 BB3703 BB3707 BB3706 BB3701 BB3707	LS3600 PY3618 PY3601 PY3621 PY3617 PY3610 ES3618 ES3619 LS36DD LS36CC SP3608 SP3609 SP3606

Learning/teaching strategies and methods to enable learning outcomes to be achieved, including formative assessments

Students of this programme are taught through a combination of lectures, seminars, practical sessions, laboratory workshops, guided reading, independent research, group tutorials, individual supervision and team based learning activities.

Knowledge and theoretical understanding is taught through interactive lectures and supporting material made available via the University's virtual learning environment (e.g., supplementary reading, podcasts, videos). These collectively provide a platform for students to further develop their understanding through guided reading and independent research.

Staff are encouraged to record their lectures and upload them onto the University's virtual learning environment to provide a revision resource for students.

Summative assessment strategies and methods to enable learning outcomes to be demonstrated

Students are assessed by in-year coursework and examinations, end-of-year examinations and a final year project. The coursework assignments and deadlines, along with weeks for in-year examinations are set at the beginning of the academic year, encouraging students to plan their workloads. The assignments require integration of information obtained from various sources and, in some assessments, students are required to evaluate their learning in the context of employment and further study. Examinations testing knowledge, understanding and coursework relating to problem solving increase in complexity as students' progress through the programme, requiring students to demonstrate an appreciation of the complexity of the life sciences and engagement with current issues.

Synoptic assessment is key at each level:

FHEQ L4 "Teamwork and Presentation": a series of Team Based Learning events on aspects of the UK Biobank will take place. At a final session groups perform a presentation for a threshold assessment. Students will subsequently write and submit a 500 word abstract on aspects of their learning for a summative grade.

FHEQ L5: "Literature Interrogation and Synthesis": in conjunction with their academic tutor (which may be changed from the first year to reflect their Stream choices), who they meet 2-3 times a term, students produce a 2000-word critical analysis of the literature surrounding their stream choices.

FHEQ L6 Synoptic: "Research methods, Culture and Communication": students must attend research seminars in their major and minor streams and work on comparing and reflect on these in the light of their studies to contrast the different methodologies and approaches used between their streams. Students will also reflect on their studies from their elective modules and progression from L5 based on L5 Learning Outcomes. The form of the work that the students may submit for assessment in their portfolio could be in a variety of media: video, web site, blog, cartoon/animation, or a more conventional news and views article.

The final-year project is the single most important assessment of the programme, requiring students to undertake and report on an extended, independent investigation.

Achievement of each programme learning outcome can be demonstrated in more than one assessment.

25. Programme Structure, progression and award requirements

Programme structures and features: levels, assessment blocks, credit and progression and award requirements

- **Compulsory block:** one which all students registered for the award are required to take as part of their programme of study. These will be listed in the left hand column;
- **Optional block:** one which students choose from an 'option range'. These will be listed in the right hand column;
- A **core assessment** is an assessment identified within an assessment block or modular block (either compulsory or optional) which must be passed (at grade D- or better) in order to be eligible to progress and to be eligible for the final award. All core assessments must be specified on the programme specification next to the appropriate assessment or modular block:

Where students are expected to pass the block at D- or better, but not necessarily all elements, then the block itself is core.

e.g. AB3000 Project (40)

Core: Block

Where only some elements of assessments are required to be passed at D- or better, these will be identified by listing each element that is core

e.g. ABXXX1 Title (XX credits)

Core: 1 & 4

Where students are expected to pass all assessments in a block then this will be identified. By setting the assessment this way, students are also required to pass the block by default.

This will be identified thus:

e.g. ABXXXX Title (XX credits)

Core: All, Block

- A **non-core assessment** does not have to be passed at grade D- or better, but must be better than a grade F, in order to progress and to be eligible for the final award.

Foundation Level

A Foundation Level structure is specified in document “Validated Programme Element Specification for LBIC Life Sciences Foundation. This document also specifies the admission and progression requirements.

FHEQ Level 4**Compulsory assessment block codes, titles and credit**

LS1800 SALS 1: Teamwork and Presentation (20 credits)

LS1804 Biosphere for Life Scientists (10 Credits)

LS1806 Biochemical Analysis (10 credits)

LS1801 Biochemistry and Molecular and Cellular Biology Examinations (20 Credits)

LS1802 Molecular Analysis (10 credits)

LS1803 Quantitative Research Skills Exam (10 credits)

Optional assessment block codes, titles and credits**Compulsory study block codes, titles and credit volume**

LS1702 Practical Research Skills (10 Credits)

LS1703 Quantitative Research Skills (10 Credits)

BB1702 Biochemistry: Structure and Function (20 Credits)

LS1701 Molecular and Cellular Biology (20 Credits)

LS1704 Biosphere for Life Scientists (15 Credits)

LS1700 Teamwork and Presentation (5 Credits)

LS1706 Tutoring (0, zero credits)

Optional Study block codes, titles and credit volume**Compulsory modular block codes, titles and credits**

PY1607 Foundations of Psychology III: Brain and Cognition (20 Credits)

SP1605 Fundamentals of Biomechanics (10)

SP1607 Introduction to Human Anatomy and Physiology (10)

Optional modular block codes, titles and credits**FHEQ Level 4 Progression and Award Requirements**

As per Senate [Regulation 2](#)

FHEQ Level 5

Students are required to take all Compulsory Blocks and choose 2 Streams. The possible stream combinations at level 5 are as follows:

Stream 1 (if a student takes this)	Stream 2 Options (they must also do one of these)
Biochemistry	Cognitive Neuroscience
	Computational Data Analysis
	Environmental Health
	Sport, Health and Exercise Sciences
Cell Biology	Cognitive Neuroscience
	Computational Data Analysis
	Environmental Health
	Sport, Health and Exercise Sciences
Cognitive Neuroscience	Biochemistry
	Cell Biology
	Genetics
	Computational Data Analysis
Computational Data Analysis	Cell Biology
	Biochemistry
	Genetics
	Infection & Immunity
Environmental Health	Biochemistry
	Cell Biology
	Genetics
	Computational Data Analysis
Evolution and Behaviour	Genetics
	Sport, Health and Exercise Sciences
	Environmental Health
	Computational Data Analysis
Genetics	Cognitive Neuroscience
	Computational Data Analysis
	Environmental Health
	Sport, Health and Exercise Sciences
Infection & Immunity	Computational Data Analysis
	Environmental Health
	Sport, Health and Exercise Sciences
Sport, Health and Exercise Sciences	Cognitive Neuroscience
	Biochemistry
	Genetics
	Infection & Immunity

Please see below for a list of the assessment, study and modular blocks students will need to take for each level 5 stream.

Compulsory assessment block codes, titles and credits	Stream assessment block codes, titles and credits
LS2801 Professional Skills in Life Sciences (10)	Biochemistry LS2807 Biochemistry Data Evaluation and Reporting (20)

<p>LS2802 Introduction to Bioinformatics (10)</p> <p>LS2800 Synoptic Assessment in Life Sciences 2: Interdisciplinary Primary Literature Interrogation and Synthesis (20)</p>	<p>LS2803 Biochemistry Examinations (20)</p> <p>Cell Biology LS2808 Cell Biology Data Evaluation and Reporting (20) LS2804 Cell Biology Examinations (20)</p> <p>Genetics LS2809 Genetics Data Evaluation and Reporting (20) LS2805 Genetics Examinations (20)</p> <p>Infection and Immunity LS2810 Infection and Immunity Data Evaluation and Reporting (20) LS2806 Infection and Immunity Examinations (20)</p> <p>Computational Data Analysis LS28BB Fundamental Programming assessment (20)</p> <p>Environmental Health BB2818 Ecosystems Stressors Assessment (20)</p> <p>Cognitive Neuroscience PY2801 Portfolio for Cognitive Neuroscience (30)</p> <p>Evolution and Behaviour PY2801 Portfolio for Cognitive Neuroscience (30)</p>
<p>Compulsory study block codes, titles and credit volume</p> <p>LS2701 Career Skills (10 Credits)</p> <p>LS2702 Introduction to Bioinformatics (10 credits)</p> <p>Elective Study (20 credits)</p> <p>LS2700 Tutoring (0, zero credits)</p>	<p>Stream Study block codes, titles and credit volume</p> <p>Biochemistry BB2730 Metabolic Regulation (20) BB2710 Analytical Biochemistry (20)</p> <p>Cell Biology BB2704 Molecular and Cellular Biology (20) BB2713 Development, Genetics and Stem Cell Biology (20)</p> <p>Computational Data Analysis CS1702 Introductory Programming (20)</p> <p>Environmental Health BB2708 Ecosystem Stressors (20)</p> <p>Genetics BB2709 Genetics, Genomics and Human Health BB2704 Molecular and Cellular Biology (20)</p> <p>Infection and Immunity BB2716 Medical Microbiology (20) BB2711 Human Pathology and Immunology</p> <p>Cognitive Neuroscience PY2704 Biological Psychology (20) PY2701 Cognitive Psychology (10) PY2706 Advanced Academic Skills for Psychology (0)</p> <p>Evolution and Behaviour PY2704 Biological Psychology (20)</p>

	PY2701 Cognitive Psychology (10)
Compulsory modular block codes, titles and credits	<p>Stream modular block codes, titles and credits</p> <p>Cognitive Neuroscience PY2602 Developmental Psychology (10)</p> <p>Computational Data Analysis LS26AA Logic and Computation (20)</p> <p>Environmental Health ES2601 Environmental Health (20)</p> <p>Sport, Health and Exercise Sciences 40 credits of SP2604 Biomechanics of Human Movement (20) SP2605 Physiology of Sport and Exercise (20) SP2606 The Psychology of Sport, Exercise and Physical Activity: Theory and Application (20)</p> <p>Evolution and Behaviour PY2603 Social Psychology (10)</p>
FHEQ Level 5 Progression and Award Requirements	
As per Senate Regulation 2	

FHEQ Level 5 – Sandwich Placement	
Compulsory assessment block codes, titles and credits	Optional assessment block codes, titles and credits
Compulsory study block codes, titles and credit volume	Optional study block codes, titles and credit volume
Compulsory modular block codes, titles and credits BB2555 Placement (120) (Core: Block)	Optional modular block codes, titles and credits
FHEQ Level 5 Placement Progression and Award Requirements	
As per Senate Regulation 2 For BSc Life Sciences with Placement, BB25555 will contribute 25% of the Level 5 profile and 8.33% of the overall degree calculation.	
If registered on the BSc Life Sciences with Placement programme and the work placement module BB2555 is not passed at D- or above, the degree of BSc Life Sciences may be awarded by the Board of Examiners.	

FHEQ Level 6

Students are required to take all Compulsory Blocks and choose a Major and Minor Stream. The possible Major and Minor combinations are as follows:

Major Stream (if a student takes this)	Minor Stream Options (they must also do one of these)
Biochemistry	Computational Data Analysis
	Environmental Health
	Sport, Health and Exercise Sciences
Cell Biology	Cognitive Neuroscience
	Computational Data Analysis
	Environmental Health
Cognitive Neuroscience	Sport, Health and Exercise Sciences
	Biochemistry
	Cell Biology
Computational Data Analysis	Genetics
	Computational Data Analysis
	Cell Biology
	Biochemistry
Environmental Health	Genetics
	Infection & Immunity
	Biochemistry
	Cell Biology
Evolution and Behaviour	Genetics
	Sport, Health and Exercise Sciences
	Environmental Health
	Computational Data Analysis
Genetics	Cognitive Neuroscience
	Computational Data Analysis
	Environmental Health
	Sport, Health and Exercise Sciences
Infection & Immunity	Computational Data Analysis
	Sport, Health and Exercise Sciences
Sports Health Exercise Sciences	Computational Data Analysis
	Cognitive Neuroscience
	Biochemistry
	Genetics
Sports Health Exercise Sciences	Infection & Immunity

Please see below for a list of the assessment, study and modular blocks students will need to take for each level 6 Major or Minor stream.

Compulsory assessment block codes, titles and credits	Stream assessment block codes, titles and credits
<p>LS3800 Synoptic Assessment in Life Sciences 3: Research Methods, Culture and Communication (20)</p>	<p>MAJOR STREAMS</p> <p>Biochemistry All of LS3808 Biochemistry Problem Solving and Data Analysis (20) LS3801 Biochemistry Examinations (20)</p> <p>Cell Biology All of LS3816 Cell Biology Problem Solving and Data Analysis (20) LS3815 Cell Biology Examinations (20)</p>

	<p>Genetics All of LS3810 Genetics Problem Solving and Data Analysis (20) LS3803 Genetics Examination (20)</p> <p>Infection and Immunity All of LS3812 Infection and Immunity Problem Solving and Data Analysis (20) LS3805 Infection and Immunity Examinations (20)</p> <p><u>MINOR STREAMS</u></p> <p>Biochemistry All of LS3809 Biochemistry Problem Solving and Data Analysis - Minor (10) LS3802 Biochemistry Examinations – Minor (10)</p> <p>Cell Biology All of LS3814 Cell Biology Problem Solving and Data Analysis – Minor (10) LS3807 Cell Biology Examinations – Minor (10)</p> <p>Genetics All of LS3811 Genetics Problem Solving and Data Analysis - Minor (10) LS3804 Genetics Examinations - Minor (10)</p> <p>Infection and Immunity All of LS3813 Infection and Immunity (Minor) Problem Solving and Data Analysis (10) LS3806 Infection and Immunity (Minor) Examinations (10)</p>
<p>Compulsory study block codes, titles and credit volume</p> <p>Elective Study (20 Credits)</p> <p>LS3700 Tutoring (0, zero credits)</p>	<p>Stream study block codes, titles and credit volume</p> <p><u>MAJOR STREAM</u></p> <p>Biochemistry All of BB3703 Medical Biochemistry (20) BB3733 Molecular Pharmacology and toxicology (20)</p> <p>Cell Biology All of BB3707 Cellular Pathologies (20) BB3704 The Biology and Treatment of Cancer (20)</p> <p>Genetics All of BB3706 Gene Therapy and Related Technologies (20) BB3701 Genomic Medicine (20)</p>

	<p>Infection and Immunity All of BB3716 Microbial Pathogenesis (20) BB3720 Medical Immunology (20)</p> <p><u>MINOR STREAMS</u></p> <p>Biochemistry BB3703 Medical Biochemistry (20) OR BB3733 Molecular Pharmacology and toxicology (20)</p> <p>Cell Biology BB3707 Cellular Pathologies (20)</p> <p>Genetics BB3706 Gene Therapy (20) OR BB3701 Genomic Medicine (20)</p> <p>Infection and Immunity BB3716 Microbial Pathogenesis (20) OR BB3720 Medical Immunology (20)</p>
<p>Compulsory modular block codes, titles and credits</p> <p>LS3600 Final Year Research Project (40 credits) (Core: Block)</p>	<p>Stream modular block codes, titles and credits</p> <p><u>MAJOR STREAMS</u></p> <p>Cognitive Neuroscience 40 credits from PY3601 Practical Investigations of Mind and Body (20) PY3621 Forensic Psychology (20) PY3618 Drugs Hormones and the Brain (20)</p> <p>Computational Data Analysis All of LS36CC Algorithms and their Applications (20) LS36DD Software Development and Management (20)</p> <p>Evolution and Behaviour All of PY3617 Evolutionary Psychology (20) PY3610 Animal Behaviour (20)</p> <p>Environmental Health All of ES3619 Ecological Public Health for Life Sciences (20) ES3618 Nature-based Climate Change Solutions for Life Sciences (20)</p> <p>Sport, Health and Exercise Sciences Any 40 credits of</p>

SP3608 Advanced Biomechanics of Sport, Exercise and Physical Activity (20)
SP3609 Physiological Limitations of Human Performance (20)
SP3606 Applied Sport and Exercise Psychology (20)

MINOR STREAMS

Computational Data Analysis

LS36CC Algorithms and their Applications (20)

OR

LS36DD Software Development and Management (20)

Cognitive Neuroscience

Any 20 credits from

PY3601 Practical Investigations of Mind and Body (20)

PY3621 Forensic Psychology (20)

PY3618 Drugs Hormones and the Brain (20)

Environmental Health

ES3619 Ecological Public Health for Life Sciences (20)

OR

ES3618 Nature-based Climate Change Solutions for Life Sciences (20)

Evolution and Behaviour

PY3617 Evolutionary Psychology (20)

OR

PY3610 Animal Behaviour (20)

Sport, Health and Exercise Sciences

Any 20 credits of

SP3608 Advanced Biomechanics of Sport, Exercise and Physical Activity (20)

SP3609 Physiological Limitations of Human Performance (20)

SP3606 Applied Sport and Exercise Psychology (20)

FHEQ Level 6 Progression and Award Requirements

As per [Senate Regulation 2](#)

For BSc Life Sciences with Placement, BB2555 will contribute 25% of the Level 5 profile and 8.33% of the overall degree calculation.

If registered on the BSc Life Sciences with Placement programme and the work placement module BB2555 is not passed at D- or above, the degree of BSc (Hons) Life Sciences may be awarded by the Board of Examiners.

Intermediate Award

Students achieving 320 credits, including 120 credits at level 5 (FHEQ Level 5) with a minimum profile of 80 credits at D- and 40 credits at E-, may be eligible for a BSc (Ord) in Applied Biological Sciences.

Please note: this specification provides a concise summary of the main features of the programme and the learning outcomes that a student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods can be found in the modular block, assessment and study block outlines and other programme and block information. The accuracy of the information contained in this document is reviewed by the University from time to time and whenever a major modification occurs.