

**KEY PROGRAMME INFORMATION**

<b>Originating institution(s)</b> Bournemouth University	<b>Faculty responsible for the programme</b> Faculty of Science and Technology
<b>Final award(s), title(s) and credits</b> BSc (Hons) Biomedical Sciences – 120 (60 ECTS) Level 4 / 120 (60 ECTS) Level 5 / 120 (60 ECTS) Level 6 credits	
<b>Intermediate award(s), title(s) and credits</b> Dip HE Biomedical Sciences – 120 (60 ECTS) Level 4 / 120 (60 ECTS) Level 5 credits Cert HE Biomedical Sciences – 120 (60 ECTS) Level 4 credits	
<b>UCAS Programme Code(s) (where applicable and if known)</b> B940	<b>HECoS Codes and percentage split per programme / pathway</b> 100270
<b>External reference points</b> <ul style="list-style-type: none"> <li>• UK Quality Code for Higher Education;</li> <li>• Part A: Setting and maintaining academic standards;</li> <li>• Chapter A1: UK and European reference points for academic standards (October 2013);</li> <li>• Subject benchmark - Biomedical Sciences;</li> <li>• Accreditation standards of Institute of Biomedical Science / Royal Society of Biology.</li> </ul>	
<b>Professional, Statutory and Regulatory Body (PSRB) links</b> N/A, but future aspiration to align to PSRB standards (Institute of Biomedical Science / Royal Society of Biology)	
<b>Places of delivery</b> Bournemouth University	
<b>Mode(s) of delivery</b> Full-time Full-Time Sandwich Part-time Part-time Sandwich	<b>Language of delivery</b> English
<b>Typical duration</b> Full time: Three years, or four years if optional 30-week placement taken Part-time: Six years, or eight years if optional 30 week placement taken	
<b>Date of first intake</b> September 2019	<b>Expected start dates</b> September
<b>Maximum student numbers</b> N/A	<b>Placements</b> Optional 30 week
<b>Partner(s)</b> Not applicable	<b>Partnership model</b> Not applicable
<b>Date of this Programme Specification</b> July 2021	
<b>Version number</b> v1.4-0921	
<b>Approval, review or modification reference numbers</b> E20171890 BU 1819 01 CA Approved 09/08/19, previously version 1.0-0919 FST 1920 04 Approved 20/11/19, previously 1.1-0919 FST 2021 10, Approved 17.05.2020, previous version v1.2-0920 FST 2021 14, Approve 16/07/2021, previously version v1.3-0921	
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## Programme Specification – Section 1

Programme Award and Title: BSc (Hons) Biomedical Sciences									
Year 1/Level 4									
Students are required to complete all 6 core units.									
Unit Name	Core/ Option	No of credits	Assessment Element Weightings			Expected contact hours per unit	Unit version no.	HECoS Code(s)	
			Exam 1	Cwk 1	Cwk 2			HECoS Subject Code and %	HECoS Subject Code and %
Biomedical Research Skills	Core	20		30	70	40	1.1	100270	
Chemistry	Core <i>Common</i>	20		50	50	40	1.1	100417	
Human Anatomy and Physiology	Core <i>Common</i>	20		50	50	40	1.2	100350	
Cell Biology	Core <i>Common</i>	20	30	70		40	1.2	100822	
Introduction to Molecular Genetics	Core	20		50	50	40	1.1	100900	
Introduction to Immunology	Core <i>Common</i>	20	100			40	1.1	100911	
<b>Progression requirements:</b> Requires 120 credits at Level 4.									
<b>Exit qualification:</b> Cert HE Biomedical Sciences (requires 120 credits at Level 4)									

Year 2/Level 5									
Students are required to complete all 6 core units.									
Unit Name	Core/ Option	No of credits	Assessment Element Weightings			Expected contact hours per unit	Unit version no.	HECoS Code(s)	
			Exam 1	Cwk 1	Cwk 2			HECoS Subject Code and %	HECoS Subject Code and %
Advanced Skills for Biomedical Science	Core	20		50	50	40	1.1	100270	
Biochemistry	Core <i>Common</i>	20		100		40	1.2	100343	
Introduction to Pharmacology	Core <i>Common</i>	20		50	50	40	1.1	100250	
Advanced Immunology	Core	20	50	50		40	1.1	100911	
Advanced Cell Biology	Core <i>Common</i>	20		50	50	40	1.1	100822	
Introduction to Toxicology	Core Shared	20	50	50		40	1.1	100277	
<b>Progression requirements:</b> Requires 120 credits at Level 5.									
<b>Exit qualification:</b> Dip HE Biomedical Sciences (requires 120 credits at Level 4 and 120 credits at Level 5)									

Year / Level P – Optional Placement Year in industry									
Successful completion of an optional 30 week placement taken between levels 5 and 6.									
<b>Progression requirements</b> satisfactory completion of at least 30 weeks of work in an optional placement. Students who do not choose to undertake the optional placement may progress directly from Level5 to Level 6.									

**Programme Specification – Section 1**

<b>Year 3/4/Level 6</b>									
Students are required to complete 2 core units (including 40 credit Biomedical Research Project), and 3 optional units.									
Unit Name	Core/ Option	No of credits	Assessment Element Weightings			Expected contact hours per unit	Unit version no.	HECoS Code(s)	
			Exam 1	Cwk 1	Cwk 2			HECoS Subject Code and %	HECoS Subject Code and %
Biomedical Research Project	Core	40		100		40	1.1	100270	
Pathophysiology	Core <i>Common</i>	20	50	50		40	1.1	100350	
Advanced Topics in Genetics	Option <i>Common</i>	20	50	50		40	1.1	100259	
Advanced Systems Biology	Option <i>Common</i>	20		100		40	1.1	100865 (50%)	100869 (50%)
Advanced Pharmacology and Toxicology	Option <i>Common</i>	20		50	50	40	1.1	100250 (50%)	100277 (50%)
Biomolecules	Option <i>Common</i>	20	50	50		40	1.1	100343	
Epidemiology and Infection	Option <i>Common</i>	20	50	50		40	1.1	100350	
<b>Exit qualification:</b> BSc (Hons) Biomedical Sciences <b>Full-time UG award:</b> Requires 120 credits at Level 4, 120 credits at Level 5 and 120 credits at Level 6. <b>Full-time Sandwich UG award:</b> Requires 120 credits at Level 4, 120 credits at Level 5, 120 credits at Level 6 and successful completion of 30-week placement.									

### AIMS OF THE DOCUMENT

The aims of this document are to:

- define the structure of the programme;
- specify the programme award titles;
- identify programme and level learning outcomes;
- articulate the regulations governing the awards defined within the document.

### AIMS OF THE PROGRAMME

This programme aims to develop highly employable graduates, who:

- have expertise and knowledge in a broad range of biomedical sciences;
- are fully aware of underlying theories and principles that underpin biomedical sciences;
- are highly trained in independent research;
- are critically aware of the wider application of biomedical sciences to address society's needs.

Biomedical science is a rapidly growing area of study, reflected by the greatly increased number of biomedical science degrees within the UK over recent years. Graduates from these degrees have skills that make them highly employable within a diverse range of organisations, not only medical in nature, but scientific / technical more generally.

The programme is aligned tightly to the QAA for Biomedical Sciences through its core units, providing additions to the QAA or greater subject depth through level 6 options. The QAA describes twelve subject areas that should be covered in a Biomedical Science degree: Anatomy and Physiology; Cell Biology; Biochemistry; Genetics; Molecular Biology; Pathology; Bioinformatics and Systems Biology; Microbiology; Immunology; Pharmacology; Developmental Biology; Physics and Chemistry. This programme is structured so that it aligns to all the required subject areas.

### ALIGNMENT WITH THE UNIVERSITY'S STRATEGIC PLAN

This programme aligns with the university's key strategic investment area of medical science, as part of its BU 2025 strategy plan.

### LEARNING HOURS AND ASSESSMENT

Bournemouth University taught programmes are composed of units of study, which are assigned a credit value indicating the amount of learning undertaken. The minimum credit value of a unit is normally 20 credits, above which credit values normally increase at 20-point intervals. 20 credits is the equivalent of 200 study hours required of the student, including lectures, seminars, assessment and independent study. 20 University credits are equivalent to 10 European Credit Transfer System (ECTS) credits.

The assessment workload for a unit should consider the total time devoted to study, including the assessment workload (i.e. formative and summative assessment) and the taught elements and independent study workload (i.e. lectures, seminars, preparatory work, practical activities, reading, critical reflection).

Assessment per 20 credit unit should normally consist of 3,000 words or equivalent. Dissertations and Level 6 and 7 Final Projects are distinct from other assessment types. The word count for these assignments is 5,000 words per 20 credits, recognising that undertaking an in-depth piece of original research as the capstone to a degree is pedagogically sound.

## STAFF DELIVERING THE PROGRAMME

Students will be taught by a combination of senior academic staff with others who have relevant expertise including – where appropriate according to the content of the unit – academic staff, qualified professional practitioners, demonstrators/technicians and research students.

## INTENDED LEARNING OUTCOMES – AND HOW THE PROGRAMME ENABLES STUDENTS TO ACHIEVE AND DEMONSTRATE THE INTENDED LEARNING OUTCOMES

### PROGRAMME AND LEVEL 6 INTENDED PROGRAMME OUTCOMES

<p><b>A: Subject knowledge and understanding</b></p> <p>This programme provides opportunities for students to develop and demonstrate knowledge and understanding of:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:</p>
<p><b>A1</b> Theories, concepts and principles relevant to a range of different fields within biomedical sciences;</p> <p><b>A2</b> The wider application of biomedical sciences to address societal needs as well as contemporary and emerging issues in the field;</p> <p><b>A3</b> The limitations of current knowledge and practice, and the role of research in addressing these limitations;</p> <p><b>A4</b> The moral and ethical dimensions of their professional actions and investigations and appreciate the need for ethical standards and professional codes of conduct.</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures (A1 – A4);</li> <li>• seminars (A1 – A4);</li> <li>• directed reading (A1 - A3);</li> <li>• use of the VLE (A1-A4);</li> <li>• tutorials and research project (A1-A4).</li> </ul> <p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• examinations (A1-A3);</li> <li>• coursework including written and oral assessments (A1 – A4);</li> <li>• research project (A1-A4).</li> </ul>
<p><b>B: Intellectual skills</b></p> <p>This programme provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the programme outcomes:</p>
<p><b>B1</b> Develop skills to critically evaluate relevant scientific knowledge to understand how evidence-based decisions may be made in biomedical sciences;</p> <p><b>B2</b> Develop skills to obtain and integrate relevant evidence from a range of sources to formulate and test hypotheses;</p> <p><b>B3</b> Analyze how familiar and unfamiliar problems can be addressed using subject knowledge and understanding ;</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures (B1 – B3);</li> <li>• seminars (B1 – B4);</li> <li>• directed reading (B1 – B4);</li> <li>• use of the VLE (B2 – B4);</li> <li>• tutorials and research project (B1 – B4).</li> </ul>

## Programme Specification - Section 2

<p><b>B4</b> Plan, execute and report on original or directed research of relevance to biomedical sciences.</p>	<p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• examinations (B1- B3);</li> <li>• coursework (B1 – B3);</li> <li>• research project (B1 – B4).</li> </ul>
<p><b>C: Practical skills</b></p> <p>This programme provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the programme/level learning outcomes:</p>
<p><b>C1</b> Identify and use appropriate laboratory and other practical techniques in a responsible, safe and ethical manner (includes awareness of quality management; animal welfare and informed consent);</p> <p><b>C2</b> Conduct and interpret biomedical science research and report this in a range of formats;</p> <p><b>C3</b> Make effective use of academic literature, databases and other relevant information;</p> <p><b>C4</b> Make effective use of IT relevant to the discipline.</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures, seminars and tutorials (C1 – C4);</li> <li>• practical and laboratory teaching (C1-C4);</li> <li>• tutorials and research project (C1-C4)</li> </ul> <p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• examinations (C3);</li> <li>• coursework (C1 – C4);</li> <li>• research project (C1-C4).</li> </ul>
<p><b>D: Transferable skills</b></p> <p>This programme provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the programme learning outcomes:</p>
<p><b>D1</b> Communicate effectively by oral, written and visual means;</p> <p><b>D2</b> Use digital technology with competence including a wide-range of software packages;</p> <p><b>D3</b> Solve numerical problems and understand the application and interpretation of statistical analyses of data;</p> <p><b>D4</b> work in collaboration with others with a professional manner;</p> <p><b>D5</b> manage their own motivation, tasks and behaviour in enterprising, innovative and professionally appropriate ways - working towards personal, career and academic development.</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures (D1 – D3);</li> <li>• seminars and tutorials (D1- D5);</li> <li>• use of the VLE (D1 - D5);</li> <li>• directed reading (D1, D3, D5).</li> </ul> <p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• coursework (D1 - D5);</li> </ul>

## Programme Specification - Section 2

	<ul style="list-style-type: none"> <li>• examinations (D1, D3, D5);</li> <li>• research project (D1- D5).</li> </ul>
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### LEVEL 5/DipHE INTENDED LEVEL OUTCOMES

<b>A: Knowledge and understanding</b>  This level provides opportunities for students to develop and demonstrate knowledge and understanding of :	The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:
<b>A1</b> Fundamental principles and concepts relevant to biomedical sciences;  <b>A2</b> An introduction to pharmacology and toxicology;  <b>A3</b> Advanced understanding in biochemistry, immunology and cell biology;  <b>A4</b> A developing understanding of the complexity and uncertainties within the field of biomedical sciences.	Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes): <ul style="list-style-type: none"> <li>• lectures (A1- A4);</li> <li>• tutorials and seminars (A1 – A4);</li> <li>• directed reading (A1-A4);</li> <li>• use of the VLE (A1-A4).</li> </ul>
	Assessment strategies and methods (referring to numbered Intended Learning Outcomes): <ul style="list-style-type: none"> <li>• examinations (A1-A4);</li> <li>• coursework (A1 – A4).</li> </ul>

## Programme Specification - Section 2

<p><b>B: Intellectual skills</b></p> <p>This level provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:</p>
<p><b>B1</b> Develop skills to evaluate and use information and data sets appropriate to biomedical sciences;</p> <p><b>B2</b> Applying key knowledge and concepts to biomedical problem solving;</p> <p><b>B3</b> Develop skills in selecting and using analytical techniques;</p> <p><b>B4</b> Develop skills in synthesising and integrating scientific knowledge.</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures (B1 - B4);</li> <li>• tutorials and seminars (B1 – B4);</li> <li>• directed reading (B1 – B4);</li> <li>• use of the VLE (B2 – B4).</li> </ul> <p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• examinations (B2 - B4);</li> <li>• coursework (B1 – B4).</li> <li>• research project (B1 – B4).</li> </ul>
<p><b>C: Practical skills</b></p> <p>This level provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:</p>
<p><b>C1</b> Continue to develop safe and responsible laboratory skills across a range of techniques;</p> <p><b>C2</b> Become proficient in obtaining, citing and referencing materials including literature and published data relevant to biomedical sciences;</p> <p><b>C3</b> Learn fundamental techniques for data analysis, reporting and interpretation.</p> <p><b>C4</b> Learn to use software relevant to the discipline.</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures (C2 - C3);</li> <li>• tutorials and seminars (C1 – C4);</li> <li>• practicals (C1-C4)</li> </ul> <p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• examinations (C2, C3)</li> <li>• coursework (C1, -C4).</li> </ul>
<p><b>D: Transferable skills</b></p> <p>This level provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:</p>
<p><b>D1</b> Further develop abilities in effective communication by oral, written and visual means;</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p>



## Programme Specification - Section 2

<p><b>D2</b> Develop skills in a range of digital technologies;</p> <p><b>D3</b> Gain confidence and skills in a range of methods for data analysis and interpretation;</p> <p><b>D4</b> Learn to work independently and in groups with an active and reflective approach to their studies.</p>	<ul style="list-style-type: none"> <li>• lectures (D1 – D4);</li> <li>• tutorials and seminars (D1- D4);</li> <li>• use of the VLE (D1 – D4).</li> </ul>
	<p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• coursework (D1 – D4);</li> <li>• examinations (D1, D3).</li> </ul>

### LEVEL 4/Cert HE INTENDED LEVEL OUTCOMES

<p><b>A: Knowledge and understanding</b></p> <p>This level provides opportunities for students to develop and demonstrate knowledge and understanding of :</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:</p>
<p><b>A1</b> A basic knowledge of chemistry and biology to underpin requirements of Level 5 units;</p> <p><b>A2</b> A foundation in human anatomy and physiology, immunology and molecular genetics;</p> <p><b>A3</b> A basic understanding of sampling, investigative and laboratory techniques;</p> <p><b>A4</b> An appreciation and basic knowledge of a range of techniques for quantitative analysis and interpretation of data in biomedical sciences.</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures (A1- A4);</li> <li>• tutorials and seminars (A1 – A4);</li> <li>• directed reading (A1- A4);</li> <li>• use of the VLE (A1-A4).</li> </ul>
	<p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• examinations (A1, A2);</li> <li>• coursework (A1 – A4).</li> </ul>
<p><b>B: Intellectual skills</b></p> <p>This level provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:</p>
<p><b>B1</b> Basic ability to identify and use appropriate sources of information;</p> <p><b>B2</b> Basic awareness of the scientific method;</p> <p><b>B3</b> Develop their ability to critically evaluate data and other evidence;</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures (B1 - B4);</li> <li>• tutorials and seminars (B1 – B4);</li> <li>• directed reading (B1 – B4);</li> </ul>

## Programme Specification - Section 2

<p><b>B4</b> Develop their ability to analyse and interpret information.</p>	<ul style="list-style-type: none"> <li>• use of the VLE (B1 – B4).</li> </ul>
<p><b>C: Practical skills</b></p> <p>This level provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level learning outcomes:</p>
<p><b>C1</b> Develop safe laboratory skills relevant to biomedical sciences;</p> <p><b>C2</b> Learn how to obtain relevant literature and published data and how to cite and reference this appropriately;</p> <p><b>C3</b> Develop underpinning skills in data handling and display;</p> <p><b>C4</b> Learn basic skills in data analysis and selection of suitable statistical tools relevant to the discipline.</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• Lectures (C1 – C4);</li> <li>• Practicals (C1-C4);</li> <li>• Tutorials and seminars (C1- C4)</li> </ul> <p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• coursework (C1 – C4).</li> </ul>
<p><b>D: Transferable skills</b></p> <p>This level provides opportunities for students to:</p>	<p>The following learning and teaching and assessment strategies and methods enable students to achieve and to demonstrate the level/stage learning outcomes:</p>
<p><b>D1</b> Develop skills and confidence in effective communication by oral, written and visual means;</p> <p><b>D2</b> Develop abilities in use of digital technology;</p> <p><b>D3</b> Basic understanding and abilities in the application and interpretation of data analysis;</p> <p><b>D4</b> Develop as independent, active and reflective learners.</p>	<p>Learning and teaching strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• lectures (D1 – D3);</li> <li>• tutorials and seminars (D1- D4);</li> <li>• use of the VLE (D1 – D4);</li> <li>• directed reading (D1- D4).</li> </ul> <p>Assessment strategies and methods (referring to numbered Intended Learning Outcomes):</p> <ul style="list-style-type: none"> <li>• coursework (D1 – D4);</li> <li>• examinations (D1, D3, D4).</li> </ul>

## ADMISSION REGULATIONS

The regulations for this programme are the University's Standard Undergraduate/ Admission Regulations (<https://intranetsp.bournemouth.ac.uk/pandptest/3a-undergraduate-admissions-regulations.pdf>).

## PROGRESSION ROUTES

### Recognition

Recognition arrangements provide formally approved entry or progression routes through which students are eligible to apply for a place on a programme leading to a BU award. Recognition does not guarantee entry onto the BU receiving programme only eligibility to apply. In some cases, additional entry criteria such as a Merit classification from the feeder programme may also apply. Please see the Recognition Register ([https://intranetsp.bournemouth.ac.uk/pandptest/7J\\_Recognition\\_Register\\_Public.xlsx](https://intranetsp.bournemouth.ac.uk/pandptest/7J_Recognition_Register_Public.xlsx)) for a full list of approved Recognition arrangements and agreed entry criteria.

In order to take advantage of exciting new approaches to learning and teaching, as well as developments in industry, the current, approved Articulation/Recognition/Progression route(s) for this programme may be subject to change. Where this happens, students will be informed and supported by the Faculty as early as possible.

## ASSESSMENT REGULATIONS

The regulations for this programme are the University's Standard Undergraduate Assessment Regulations (<https://intranetsp.bournemouth.ac.uk/pandptest/6a-standard-assessment-regulations-research-degrees.pdf>).

## WORK BASED LEARNING (WBL) AND PLACEMENT ELEMENTS

The programme will include an optional 30-week placement year in the third year of study. Those students who successfully complete the one-year placement will be eligible for the award of full-time sandwich degree. The programme will not include 5-week placements, as found in some other programmes at the university, as long, rather than short placements, are more typical on related degrees across the sector.

## Programme Skills Matrix

Units		Programme Intended Learning Outcomes																					
		A 1	A 2	A 3	A 4			B 1	B 2	B 3	B 4			C 1	C 2	C 3	C 4		D 1	D 2	D 3	D 4	D 5
L E V E L 6	Biomedical Research Project	X	X	X	X			X	X	X	X			X	X	X	X		X	X	X		X
	Pathophysiology	X	X	X	X			X	X	X	X			X		X			X				X
	Advanced Topics in Genetics	X	X	X	X			X	X	X	X			X		X	X		X	X			X
	Advanced Systems Biology	X		X				X	X	X						X	X		X	X	X		X
	Advanced Pharmacology and Toxicology	X	X	X	X			X	X		X					X	X			X		X	X
	Biomolecules	X	X							X				X	X	X	X		X	X	X	X	X
	Epidemiology and Infection	X	X	X	X			X	X	X						X				X		X	X
L E V E L 5	Advanced Skills for Biomedical Science				X			X	X	X	X			X	X	X			X	X	X	X	
	Biochemistry	X		X						X				X	X	X	X		X	X		X	
	Introduction to Pharmacology	X	X					X	X	X	X				X	X			X		X	X	
	Advanced Immunology	X		X				X		X	X			X	X	X			X	X		X	
	Advanced Cell Biology			X				X	X					X	X				X			X	
	Introduction to Toxicology	X	X		X			X	X	X	X			X	X	X	X		X		X	X	
L E V E L 4	Biomedical Research Skills			X	X			X	X	X	X				X	X	X		X	X	X	X	
	Chemistry	X		X					X					X		X			X			X	
	Human Anatomy and Physiology		X					X		X					X				X		X	X	
	Cell Biology	X		X	X				X	X	X			X		X	X		X	X	X	X	
	Introduction to Molecular Genetics		X	X				X	X					X	X				X	X		X	
	Introduction to Immunology	X	X	X				X	X					X	X				X	X		X	
<b>A – Subject Knowledge and Understanding (L6)</b> This programme provides opportunities for students to develop and demonstrate knowledge and understanding of: <ol style="list-style-type: none"> <li>Theories, concepts and principles relevant to a range of different fields within biomedical sciences;</li> <li>The wider application of biomedical sciences to address societal needs as well as contemporary and emerging issues in the field;</li> <li>The limitations of current knowledge and practice, and the role of research in addressing these limitations;</li> <li>The moral and ethical dimensions of their professional actions and investigations and appreciate the need for ethical standards and professional codes of conduct.</li> </ol>												<b>C – Subject-specific/Practical Skills (L6)</b> This programme provides opportunities for students to: <ol style="list-style-type: none"> <li>Identify and use appropriate laboratory and other practical techniques in a responsible, safe and ethical manner (includes awareness of quality management; animal welfare and informed consent);</li> <li>Conduct, observe and record biomedical science research and report this in a range of formats;</li> <li>Make effective use of academic literature, databases and other relevant information;</li> <li>Make effective use of IT relevant to the discipline.</li> </ol>											

**B – Intellectual Skills**

This programme provides opportunities for students to:

1. Develop skills to critically evaluate relevant scientific knowledge to understand how evidence-based decisions may be made in biomedical sciences;
2. Develop skills to obtain and integrate relevant evidence from a range of sources to formulate and test hypotheses;
3. Analyze how familiar and unfamiliar problems can be addressed using subject knowledge and understanding;
4. Plan, execute and report on original or directed research of relevance to biomedical sciences.

**D – Transferable Skills**

This programme provides opportunities for students to:

1. Communicate effectively by oral, written and visual means;
2. Use digital technology with competence including a wide-range of software packages;
3. Solve numerical problems and understand the application and interpretation of statistical analyses of data;
4. Work in collaboration with others with a professional manner;
5. Manage their own motivation, tasks and behaviour in enterprising, innovative and professionally appropriate ways - working towards personal, career and academic development.