# Imperial College London

Programme Information		
Programme Title	Programme Code	HECoS Code
BSc Biochemistry with Management (4 year)	C7NG	For Registry Use Only

Award	Longth of Study	Made of Study	du Fretru Deint/e)		Total Credits		
Award	Length of Study	Mode of Study	Entry Point(s)	ECTS	CATS		
BSc	4 Years	Full-time	October	240	480		
Dip HE	2 Years	Full-time	N/A	120	240		
Cert HE	1 Year	Full-time	N/A	60	120		

The Cert. HE / Dip. HE are exit awards and are not available for entry. All students must apply to and join the BSc

Ownership					
Awarding Institution	Imperial College London	Faculty	Natural Sciences Imperial College Business School		
Teaching Institution	Imperial College London	Department	Life Sciences Imperial College Business School		
Associateship	Associateship of the Royal College of Science (ARCS)	Main Location(s) of Study	South Kensington		
External Reference					
Relevant QAA Benchmark St external reference points	atement(s) and/or other	<u>Biosciences</u>			
FHEQ Level		Level 6			
EHEA Level		1 <sup>st</sup> cycle			
External Accreditor(s) (if ap	oplicable)				
External Accreditor 1:	AMBA				
Accreditation received:	ation received: 1987		2023		
External Accreditor 2:	External Accreditor 2: EQUIS				
Accreditation received:	2006	Accreditation renewal:	2025		

External Accreditor 3:	ternal Accreditor 3: AACSB International					
Accreditation received:	2012	Accreditation renewal: 2023				
Collaborative Provision	Collaborative Provision					
Collaborative partner	Collaboration type	Agreement effective date	Agreement expiry date			
N/A	N/A	N/A N/A				
Specification Details						
Programme Lead		Prof Huw Williams				
Student cohorts covered by specification		2022-23 entry				
Date of introduction of programme		October 2019				
Date of specification revision		October 2022				

### **Programme Overview**

The BSc Biochemistry with Management programme is a four-year degree. In the first two years students will tackle core subjects to ensure that they receive a solid grounding in fundamentals.

Students will then specialise in the third year, making their choice from a wide range of options and research projects.

Studying the Biochemistry with Management BSci programme you will be actively engaged in a curriculum that will be enriched from year 1 onwards by the Department of Life Science's research environment.

All students on Biochemistry programmes follow the same core modules in the first two years of study, where the programme will range from biological chemistry to cell biology and molecular biology. This will be complemented by a Life Science Skills programme that will provide training in quantitative skills, programming, statistics and scientific writing and presentation. You will develop a synoptic understanding of Biochemistry before starting to specialise towards the end of year 2 by taking elective modules.

You will specialise in the final year by selecting modules leading to specialisation in a range of Biochemical and Life Science areas including Structural Biology, Infection and Immunology, Systems Biology, Stem Cells, Neuroscience, Metabolic Engineering and Synthetic Biology, Developmental Biology and Bioinformatics. Our final year specialised modules are based around our wide-ranging, world class research expertise and you will be brought to the edge of knowledge in your chosen specialised modules, taught by experts.

The final year will be spent in the Imperial College Business School. This year aims to prepare students for a career in business management, management services or management consultancy in the private or public sectors in the UK, Europe or worldwide.

Graduates in Life Sciences go onto range of employments and further study including PhD study, research and development, science policy, research and technical consultancy, business and finance.

# **Learning Outcomes**

Please refer to the Teaching Toolkit for advice on the role and purpose of Intended Learning Outcomes (ILO): www.imperial.ac.uk/staff/educational-development/teaching-toolkit/intended-learning-outcomes

On completion of this programme, graduates will be able to:

## On achieving the Cert HE:

- 1. Interpret and apply core terminology and key concepts used in life sciences;
- 2. Integrate fundamental biological and/or biochemical principles to explore biological complexity;
- 3. Integrate concepts from a range of disciplines, including physics, chemistry and maths, to solve problems in life sciences;
- 4. Demonstrate effective verbal, written communication and presentation skills;

### On achieving the Dip HE, the ILOs (1-4) above and ....

- 5. Explore ethical and social issues in life sciences, and consider the potential impact of novel technologies;
- 6. Formulate hypotheses, design experiments, and apply lab and/or field skills to collect and critically evaluate relevant data;
- 7. Conduct statistical analyses using programming skills, adhering to publication standards;
- 8. Collaborate successfully in diverse, multicultural and international teams;

## On achieving the BSc, all the ILOs (1-8) above and ....

- 9. Demonstrate excellent verbal, written communication and presentation skills across a range of academic and disciplinary activities, including research, assessment, dissemination and communication with diverse audiences;
- 10. Solve complex real-world problems within their degree specialisation, using a range of appropriate laboratory, computational or field skills;
- 11. Create independent, enquiry-based, extended and novel work that demonstrates critical analysis and evaluation.
- 12. Demonstrate an awareness of the outstanding research problems of their chosen Life Science specialities and an awareness of how they are being or can be tackled.
- 13. Display a strong sense of personal and professional identity as a life scientist, and feel confident to apply the scientific method to life science problems;
- 14. Have developed into effective, independent Life Scientists; life-long learners with high self-efficacy; and rational and evidence-based decision makers.
- 15. Demonstrate a foundation of knowledge in core business disciplines
- 16. Demonstrate the capability to apply this knowledge
- 17. Continue to develop their personal skill set

The Imperial Graduate Attributes are a set of core competencies which we expect students to achieve through completion of any Imperial College degree programme. The Graduate Attributes are available at: <a href="https://www.imperial.ac.uk/students/academic-support/graduate-attributes">www.imperial.ac.uk/students/academic-support/graduate-attributes</a>

Entry Requirements					
Academic Requirement	Alevel  AAA overall, to include: A in Chemistry A in Biology, Mathematics or Physics A in another subject  General Studies and Critical Thinking are not accepted.  International Baccalaureate (IB)				

	Minimum 38 overall 6 in Chemistry at higher level 6 in Biology, Physics or Mathematics at higher level
Non-academic Requirements	None
English Language Requirement	Higher requirement Please check for other Accepted English Qualifications
Admissions Test/Interview	There is no admissions test associated with entry to this programme and applicants will not normally be interviewed.

The programme's competency standards documents can be found at: TBA

## **Learning and Teaching Approach**

## **Learning and Teaching Delivery Methods**

Lectures and large group-teaching incorporating a range of active leaning approaches, laboratory practicals working as individuals, in pairs or small groups, computational work, seminars, tutorials and problem classes, interactive online learning material, online concepts and skills videos and interactive group work, student presentations as individuals and small groups, team-based learning, dissertation and individual research projects.

#### **Overall Workload**

Your overall workload consists of face-to-face sessions and independent learning. While your actual contact hours may vary according to the optional modules you choose to study, the following gives an indication of how much time you will need to allocate to different activities at each level of the programme. At Imperial, each <a href="ECTS credit">ECTS credit</a> taken equates to an expected total study time of 25 hours. Therefore, the expected total study time is 1500 hours per year.

Typically in the first two years you will spend in the order of 30% of your time on lectures, laboratory work and small group teaching and seminars and similar (around 400 hours) and in the order of 70% of your time on independent study.

#### **Assessment Strategy**

#### Assessment Methods

## Formative assessment.

Performance in problem classes, quizzes in lectures, digital resources for self-assessment including online quizzes and problems, by discussions in tutorials as well as written and or verbal feedback on a range of non-examined tasks, including the types of summatively assessed tasks listed below.

#### **Summative Assessment**

Written Examinations

Laboratory write-ups

Essays

Reports

Dissertations

Presentations

Individual research project report

Viva voce examination

Peer assessment

Poster presentations

Assessment Mode	Year 1	Year 2	Year 3	Year 4
Examination	60	48	56	60
Coursework	40	52	44	40

#### Academic Feedback Policy

Coursework submission is managed by our education office and in most cases coursework is submitted electronically via BlackBoard and feedback is provided electronically or by a feedback form attached to items of coursework. Feedback is also provided via Blackboard on formative quizzes. You will receive feedback normally within 10 working days, but this might be longer for some very substantial pieces of work, such as a dissertation. Personal tutors hold timetabled tutorials to give feedback on examination performance and can be approached by their tutees at any point in the year for further guidance. The education office manages the timely return of coursework feedback and the Director of Undergraduate Studies routinely monitors the quality and quantity of feedback provided. In some instances, generic class feedback is returned to all students via email or a Blackboard announcement once coursework is marked

#### Re-sit Policy

The College's Policy on Re-sits is available at: <a href="https://www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/">www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/</a>

#### Mitigating Circumstances Policy

The College's Policy on Mitigating Circumstances is available at: <a href="https://www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/">https://www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/</a>

Additional Programme Costs					
This section should outline any additional costs relevant to this programme which are not included in students' tuition fees.					
Description	Mandatory/Optional	Approximate cost			
N/A	N/A	N/A			

## **Programme Structure**

# Year 1 – FHEQ Level 4 Students study all core modules.

Code	Module Title	Core/ Elective	Group*	Term	Credits
LIFE40001	Biological Chemistry	Core		1-3	15
LIFE40002	Cell Biology	Core		1-3	15
LIFE40003	Enzymes and Metabolism	Core		2-3	15
LIFE40004	Molecular Biology	Core		2-3	15
Credit Total			60		

## Year 2 - FHEQ Level 5 Students study all core modules and one elective module from Group A.

Code	Module Title	Core/ Elective	Group	Term	Credits
LIFE50022	Structural Biology	Core		1	10
LIFE50010	Genes and Genomics	Core		1	7.5
LIFE50026	Bioinformatics, Statistics and Programming (BC)	Core		1-2	5
LIFE50003	Tutored Dissertation	Core		3	7.5
LIFE50019	Protein Science	Core		2	7.5
LIFE50013	Integrative Cell Biology	Core		2	10
LIFE50023	Topics in Biotechnology	Elective	Α	3	7.5
LIFE50007	Challenges in Cell Biology	Elective	Α	3	7.5
LIFE50001	Applied Molecular Biochemistry	Elective	Α	3	7.5
LIFE50018	Computational 'Omics	Elective	Α	3	7.5
	I-Explore	Elective	С	1-2	5/7.5
	Credit Total			60	

## Year 3 - FHEQ Level 6

All year 3 modules are electives and students will select three electives for study, one from each of Groups A, B and C and a research project option from Group D. Elective modules in Groups A, B and C are capped normally at 40-45 students/module and students choose their top three choices from each group with final allocations being made by an algorithm that maximises the allocation of highest number of top choices across the cohort.

Code	Module Title	Core/ Elective	Group	Term	Credits
LIFE60061	Stem Cells, Regeneration and Ageing	Elective	Α	1	115

LIFE60056         Metabolic and Network Engineering         Elective         A         1         15           LIFE60055         Medical Microbiology         Elective         A         1         15           LIFE60057         Plant Biotechnology and Development         Elective         A         1         15           LIFE60059         Current Topics in Developmental Biology         Elective         A         1         15           LIFE60062         Structural Biology and Drug Design         Elective         A         1         15           LIFE60067         Advanced Bacterial and Eukaryotic Cell Biology         Elective         B         1         15           LIFE60052         Integrative Systems Biology         Elective         B         1         15           LIFE60052         Integrative Systems Biology         Elective         B         1         15           LIFE60050         Evolutionary Applications         Elective         B         1         15           LIFE60043         Advanced Topics in Parasitology and Vector Biology         Elective         B         1         15           LIFE60042         Advanced Topics in Infection and Immunity         Elective         A         1         15           LIFE60048						
LIFE60057 Plant Biotechnology and Development Elective A 1 15  LIFE60059 Current Topics in Developmental Biology Elective A 1 15  LIFE60062 Structural Biology and Drug Design Elective A 1 15  LIFE60067 Advanced Bacterial and Eukaryotic Cell Biology Elective B 1 15  LIFE60052 Integrative Systems Biology Elective B 1 15  LIFE60052 Integrative Systems Biology Elective B 1 15  LIFE60053 Evolutionary Applications Elective B 1 15  LIFE60043 Advanced Topics in Parasitology and Vector Elective B 1 15  LIFE60043 Symbiosis, Plant Immunity and Disease Elective B 1 15  LIFE60044 Advanced Topics in Infection and Immunity Elective A 1 15  LIFE60045 The Microbiome Elective C 2 15  LIFE60046 Cancer Elective B 1 15  LIFE60058 Mechanisms of Gene Expression Elective A 1 15  LIFE60058 Molecular Basis of Bacterial Infection Elective C 2 15  LIFE60047 Bioinformatics Elective C 2 15  LIFE60064 Synthetic Biology Elective C 2 15  LIFE60064 Biodiversity Genomics Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective C 2 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60040 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60056	Metabolic and Network Engineering	Elective	Α	1	15
LIFE60059 Current Topics in Developmental Biology Elective A 1 15  LIFE60062 Structural Biology and Drug Design Elective A 1 15  LIFE60067 Advanced Bacterial and Eukaryotic Cell Biology Elective B 1 15  LIFE60052 Integrative Systems Biology Elective B 1 15  LIFE60050 Evolutionary Applications Elective B 1 1 15  LIFE60043 Advanced Topics in Parasitology and Vector Biology Elective B 1 1 15  LIFE60063 Symbiosis, Plant Immunity and Disease Elective B 1 1 15  LIFE60064 Advanced Topics in Infection and Immunity Elective A 1 15  LIFE60065 The Microbiome Elective C 2 15  LIFE60066 The Microbiome Elective B 1 1 15  LIFE60058 Mechanisms of Gene Expression Elective A 1 15  LIFE60059 Molecular Basis of Bacterial Infection Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60060 Bioinformatics Elective C 2 15  LIFE60064 Biodiversity Genomics Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60040 Medical Glycobiology Elective C 2 15  LIFE60040 Disease Ecology and Epidemiology Elective C 2 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60040 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60055	Medical Microbiology	Elective	Α	1	15
LIFE60062         Structural Biology and Drug Design         Elective         A         1         15           LIFE60067         Advanced Bacterial and Eukaryotic Cell Biology         Elective         B         1         15           LIFE60052         Integrative Systems Biology         Elective         B         1         15           LIFE60050         Evolutionary Applications         Elective         B         1         15           LIFE60043         Advanced Topics in Parasitology and Vector Biology         Elective         B         1         15           LIFE60043         Symbiosis, Plant Immunity and Disease         Elective         B         1         15           LIFE60042         Advanced Topics in Infection and Immunity         Elective         A         1         15           LIFE60045         The Microbiome         Elective         C         2         15           LIFE60048         Cancer         Elective         B         1         15           LIFE60053         Mechanisms of Gene Expression         Elective         C         2         15           LIFE60054         Molecular Basis of Bacterial Infection         Elective         C         2         15           LIFE60060         Synthetic Biology <td>LIFE60057</td> <td>Plant Biotechnology and Development</td> <td>Elective</td> <td>Α</td> <td>1</td> <td>15</td>	LIFE60057	Plant Biotechnology and Development	Elective	Α	1	15
LIFE60067 Advanced Bacterial and Eukaryotic Cell Biology Elective B 1 15  LIFE60052 Integrative Systems Biology Elective B 1 15  LIFE60050 Evolutionary Applications Elective B 1 15  LIFE60043 Advanced Topics in Parasitology and Vector Biology Elective B 1 15  LIFE60063 Symbiosis, Plant Immunity and Disease Elective B 1 15  LIFE60064 Advanced Topics in Infection and Immunity Elective A 1 15  LIFE60065 The Microbiome Elective C 2 15  LIFE60068 Cancer Elective B 1 15  LIFE60069 Molecular Basis of Bacterial Infection Elective A 1 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Biodiversity Genomics Elective C 2 15  LIFE60064 Biodiversity Genomics Elective C 2 15  LIFE60064 Medical Glycobiology Elective C 2 15  LIFE60064 Medical Glycobiology Elective C 2 15  LIFE60064 Medical Glycobiology Elective C 2 15  LIFE60064 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60059	Current Topics in Developmental Biology	Elective	Α	1	15
LIFE60052 Integrative Systems Biology Elective B 1 15  LIFE60050 Evolutionary Applications Elective B 1 15  LIFE60043 Advanced Topics in Parasitology and Vector Biology Elective B 1 15  LIFE60063 Symbiosis, Plant Immunity and Disease Elective B 1 15  LIFE60042 Advanced Topics in Infection and Immunity Elective A 1 15  LIFE60065 The Microbiome Elective C 2 15  LIFE60048 Cancer Elective B 1 15  LIFE60053 Mechanisms of Gene Expression Elective A 1 15  LIFE60058 Molecular Basis of Bacterial Infection Elective C 2 15  LIFE60040 Bioinformatics Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Systems Neuroscience: Exploring the Brain in Health and Disease Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60040 Biodiversity Genomics Elective C 2 15  LIFE60040 Medical Glycobiology Elective C 2 15  LIFE60040 Disease Ecology and Epidemiology Elective C 2 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60040 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60062	Structural Biology and Drug Design	Elective	Α	1	15
LIFE60050         Evolutionary Applications         Elective         B         1         15           LIFE60043         Advanced Topics in Parasitology and Vector Biology         Elective         B         1         15           LIFE60063         Symbiosis, Plant Immunity and Disease         Elective         B         1         15           LIFE60042         Advanced Topics in Infection and Immunity         Elective         A         1         15           LIFE60065         The Microbiome         Elective         C         2         15           LIFE60048         Cancer         Elective         B         1         15           LIFE60053         Mechanisms of Gene Expression         Elective         A         1         15           LIFE60058         Molecular Basis of Bacterial Infection         Elective         C         2         15           LIFE60047         Bioinformatics         Elective         C         2         15           LIFE60060         Synthetic Biology         Elective         C         2         15           LIFE60064         Biodiversity Genomics         Elective         C         2         15           LIFE60041         Advanced Immunology         Elective         C	LIFE60067	Advanced Bacterial and Eukaryotic Cell Biology	Elective	В	1	15
LIFE60043 Advanced Topics in Parasitology and Vector Biology  LIFE60063 Symbiosis, Plant Immunity and Disease Elective B 1 15  LIFE60042 Advanced Topics in Infection and Immunity Elective A 1 15  LIFE60065 The Microbiome Elective C 2 15  LIFE60048 Cancer Elective B 1 1 15  LIFE60053 Mechanisms of Gene Expression Elective A 1 15  LIFE60058 Molecular Basis of Bacterial Infection Elective C 2 15  LIFE60047 Bioinformatics Elective C 2 15  LIFE60040 Synthetic Biology Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Biodiversity Genomics Exploring the Brain in Health and Disease Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60052	Integrative Systems Biology	Elective	В	1	15
LIFE60043         Biology         Elective         B         1         15           LIFE60042         Advanced Topics in Infection and Immunity         Elective         A         1         15           LIFE60042         Advanced Topics in Infection and Immunity         Elective         A         1         15           LIFE60065         The Microbiome         Elective         C         2         15           LIFE60048         Cancer         Elective         B         1         15           LIFE60053         Mechanisms of Gene Expression         Elective         A         1         15           LIFE60058         Molecular Basis of Bacterial Infection         Elective         C         2         15           LIFE60047         Bioinformatics         Elective         C         2         15           LIFE60060         Synthetic Biology         Elective         C         2         15           LIFE60064         Systems Neuroscience: Exploring the Brain in Health and Disease         Elective         C         2         15           LIFE60046         Biodiversity Genomics         Elective         C         2         15           LIFE60054         Medical Glycobiology         Elective         C	LIFE60050	Evolutionary Applications	Elective	В	1	15
LIFE60042 Advanced Topics in Infection and Immunity Elective A 1 15  LIFE60065 The Microbiome Elective C 2 15  LIFE60048 Cancer Elective B 1 15  LIFE60053 Mechanisms of Gene Expression Elective A 1 15  LIFE60058 Molecular Basis of Bacterial Infection Elective C 2 15  LIFE60047 Bioinformatics Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Systems Neuroscience: Exploring the Brain in Health and Disease Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60043	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Elective	В	1	15
LIFE60065         The Microbiome         Elective         C         2         15           LIFE60048         Cancer         Elective         B         1         15           LIFE60053         Mechanisms of Gene Expression         Elective         A         1         15           LIFE60058         Molecular Basis of Bacterial Infection         Elective         C         2         15           LIFE60047         Bioinformatics         Elective         C         2         15           LIFE60060         Synthetic Biology         Elective         C         2         15           LIFE60064         Systems Neuroscience: Exploring the Brain in Health and Disease         Elective         C         2         15           LIFE60046         Biodiversity Genomics         Elective         C         2         15           LIFE60041         Advanced Immunology         Elective         C         2         15           LIFE60054         Medical Glycobiology         Elective         C         2         15           LIFE60049         Disease Ecology and Epidemiology         Elective         B         1         15           LIFE60040         Science Communications plus Dissertation         Elective         D	LIFE60063	Symbiosis, Plant Immunity and Disease	Elective	В	1	15
LIFE60048 Cancer Elective B 1 15  LIFE60053 Mechanisms of Gene Expression Elective A 1 15  LIFE60058 Molecular Basis of Bacterial Infection Elective C 2 15  LIFE60047 Bioinformatics Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Systems Neuroscience: Exploring the Brain in Health and Disease Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60042	Advanced Topics in Infection and Immunity	Elective	Α	1	15
LIFE60053 Mechanisms of Gene Expression Elective A 1 15  LIFE60058 Molecular Basis of Bacterial Infection Elective C 2 15  LIFE60047 Bioinformatics Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Systems Neuroscience: Exploring the Brain in Health and Disease Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60065	The Microbiome	Elective	С	2	15
LIFE60058 Molecular Basis of Bacterial Infection Elective C 2 15  LIFE60047 Bioinformatics Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Systems Neuroscience: Exploring the Brain in Health and Disease Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60048	Cancer	Elective	В	1	15
LIFE60047 Bioinformatics Elective C 2 15  LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Systems Neuroscience: Exploring the Brain in Health and Disease Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60053	Mechanisms of Gene Expression	Elective	Α	1	15
LIFE60060 Synthetic Biology Elective C 2 15  LIFE60064 Systems Neuroscience: Exploring the Brain in Health and Disease Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60058	Molecular Basis of Bacterial Infection	Elective	С	2	15
LIFE60064 Systems Neuroscience: Exploring the Brain in Health and Disease Elective C 2 15  LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60047	Bioinformatics	Elective	С	2	15
LIFE60046 Biodiversity Genomics Elective C 2 15  LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60060	Synthetic Biology	Elective	С	2	15
LIFE60041 Advanced Immunology Elective C 2 15  LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60064	Systems Neuroscience: Exploring the Brain in Health and Disease	Elective	С	2	15
LIFE60054 Medical Glycobiology Elective C 2 15  LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60046	Biodiversity Genomics	Elective	С	2	15
LIFE60049 Disease Ecology and Epidemiology Elective B 1 15  LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60041	Advanced Immunology	Elective	С	2	15
LIFE60040 Science Communications plus Dissertation Elective D 2/3 15  LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60054	Medical Glycobiology	Elective	С	2	15
LIFE60066 Research Project (Lab, Data, Field) Elective D 2/3 15	LIFE60049	Disease Ecology and Epidemiology	Elective	В	1	15
	LIFE60040	Science Communications plus Dissertation	Elective	D	2/3	15
Credit Total 60	LIFE60066	Research Project (Lab, Data, Field)	Elective	D	2/3	15
				Cred	lit Total	60

Year 4 FHEQ Level 6 Students study all compulsory modules.						
Code	Module Title	Core/ Compulsory/ Elective/	Group	Term	Credi ts	

		I			
BUSI97178	Plagiarism Awareness	Compulsory	N/A	1	0
BUSI60023	Accounting	Compulsory	N/A	1	5
BUSI60033	Business Economics	Compulsory	N/A	1	5
BUSI60025	Global Strategy	Compulsory	N/A	1	5
BUSI60026	Organisational Behaviour and Human Resource Management	Compulsory	N/A	1	5
BUSI60028	Marketing	Compulsory	N/A	2	5
BUSI60034	Innovation Management	Compulsory	N/A	2	5
BUSI60035	Finance and Financial Management	Compulsory	N/A	2	5
BUSI60027	Sustainable Business	Compulsory	N/A	2	5
BUSI60031	Entrepreneurship	Compulsory	N/A	2	5
BUSI60032	Research Methods and Practice	Compulsory	N/A	1-3	15
Credit Total					60

<sup>\* &#</sup>x27;Group' refers to module grouping (e.g. a group of electives from which one/two module(s) must be chosen).

## **Progression and Classification**

## **Progression**

In order to progress to the next level of study, you must have passed all modules (equivalent to 60 ECTS) in the current level of study at first attempt, at resit or by a compensated pass.

The overall weighted average for each year must be 40%, including where a module(s) has been compensated, in order for you to progress to the next year of the programme.

#### Classification

The marks from modules in each year contribute towards the final degree classification.

In order to be considered for an award, you must have achieved the minimum number of credits at the required levels prescribed for that award and met any programme specific requirements as set out in the Programme Specification.

Your classification will be determined through:

- i) Aggregate Module marks for all modules
- ii) Year Weightings

For this award, Year One is weighted at 7.50%, Year Two at 20.00%, Year Three at 36.25% and Year 4 at 36.25%.

The College sets the class of undergraduate degree that may be awarded as follows:

i)	First	70% or above for the average weighted module results
ii)	Upper Second	60% or above for the average weighted module results
iii)	Lower Second	50% or above for the average weighted module results
iv)	Third	40% or above for the average weighted module results

## Programme Specific Regulations

N/A

# **Supporting Information**

The Programme Handbook is available at: TBA

The Module Handbook is available at: TBA

The College's entry requirements for postgraduate programmes can be found at: www.imperial.ac.uk/study/pg/apply/requirements

The College's Quality and Enhancement Framework is available at: www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance

The College's Academic and Examination Regulations can be found at: <a href="https://www.imperial.ac.uk/about/governance/academic-governance/regulations">www.imperial.ac.uk/about/governance/academic-governance/regulations</a>

Imperial College is an independent corporation whose legal status derives from a Royal Charter granted under Letters Patent in 1907. In 2007 a Supplemental Charter and Statutes was granted by HM Queen Elizabeth II. This Supplemental Charter, which came into force on the date of the College's Centenary, 8th July 2007, established the College as a University with the name and style of "The Imperial College of Science, Technology and Medicine".

www.imperial.ac.uk/admin-services/secretariat/college-governance/charters/

Imperial College London is regulated by the Office for Students (OfS) <a href="https://www.officeforstudents.org.uk/advice-and-guidance/the-register/">www.officeforstudents.org.uk/advice-and-guidance/the-register/</a>

This document provides a definitive record of the main features of the programme and the learning outcomes that a typical student may reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities provided. This programme specification is primarily intended as a reference point for prospective and current students, academic and support staff involved in delivering the programme and enabling student development and achievement, for its assessment by internal and external examiners, and in subsequent monitoring and review.

Modifications				
Description	Approved	Date	Paper Reference	
N/A	N/A	N/A	N/A	