Programme Information		
Programme Title	Programme Code	HECoS Code
Molecular Bioengineering	For Registry Use Only	For Registry Use Only

Award	Length of Study	Mode of Study	Entry Point(s)	Total Credits	
				ECTS	CATS
MEng	4 Academic years	Full-time	Annually in October	240	480
BEng*	3 Academic years	Full-time	Exit Award	180	360
DipHE*	2 Academic years	Full-time	Exit Award	120	240
CertHE*	1 Academic year	Full-time	Exit Award	60	120

*The CertHE, DipHE and BEng exit awards are not accredited by any professional body. The BEng exit award is an honours degree. They may be offered to a student as an exit award in exceptional circumstances. All students must apply to and join the MEng

Ownership			
Awarding Institution	Imperial College London	Faculty	Faculty of Engineering
Teaching Institution	Imperial College London	Department	Bioengineering
Associateship	City and Guilds London Institute	Main Location(s) of Study	South Kensington Campus
External Reference			
Relevant QAA Benchmark Statement(s) and/or other external reference points		General Engineering and Masters in Engineering	
FHEQ Level		MEng Level 7 BEng Level 6 DipHE Level 5 CertHE Level 4	
EHEA Level		2nd Cycle	
External Accreditor(s) (if applicable)			
External Accreditor 1:	Institution of Mechanical Engineers		
Accreditation received:	N/A	Accreditation renewal:	2019
External Accreditor 2:	The Institution of Engineering Designers		
Accreditation received:	N/A	Accreditation renewal:	2019

External Accreditor 3:	Institute of Physics and Engineering in Medicine		
Accreditation received:	N/A	Accreditation renewal:	2019
External Accreditor 4:	The Institution of Engineering and Technology		
Accreditation received:	N/A	Accreditation renewal:	2019
External Accreditor 5:	The Institute of Materials, Minerals and Mining		
Accreditation received:	N/A	Accreditation renewal:	2019
Collaborative Provision			
Collaborative partner	Collaboration type	Agreement effective date	Agreement expiry date
N/A	N/A	N/A	N/A
Specification Details			
Programme Lead		Professor Martyn Boutelle	
Student cohorts covered by specification		2019-20 entry	
Date of introduction of programme		October 18	
Date of programme specification/revision		March 19	

Programme Overview

Molecular Bioengineering considers how we might engineer biological systems to solve challenges in health and wellbeing. The programme will take a strong engineering approach to understanding and solving biological and biomedical problems and has been designed with a focus on engineering rather than a clinical perspective. By undertaking this degree programme you will develop the scientific understanding and laboratory expertise of a life-scientist with the technical knowledge and problem-solving skills of an engineer. With this unique combination of skills you will be extremely well placed to contribute to addressing the global challenges of today: health and well-being agenda, personalised medicine, new biomedical technology industries.

Our programme combines lectures, study groups and taught classes where you gain a theoretical understanding with many practical wet and dry labs and activities where you will and work on real world projects in medicine and biology with life-changing potential. You will also have many opportunities to take part in design, test and build activities starting in the first year and continuing through the degree programme.

Our programme will also build your communication and inter-personal skills through a range of teaching activities including a substantial amount of group and team work as collaboration in interdisciplinary teams is a key feature of working as a professional Molecular Bioengineer. This begins in the first week of year 1 where group working is introduced in fresher's week,

We expect our graduates to have the ability to become leaders in their chosen areas and so our programme is also designed to develop your leadership skills, introduce you to professional standards and to develop your understanding of engineers' obligations to society, the profession and the environment.

In your first two years all modules are compulsory and are delivered in the department. These modules are designed so that you build a breadth of core engineering and biomedical engineering knowledge, as well as a specialist understanding of biochemical, physiological and biological processes. You will undergo extensive wet laboratory training so that you develop excellent advanced practical laboratory skills in chemical biology, molecular biology, synthetic biology, analytical sciences, microfluidics and device engineering.

In the third year of the MEng programme there are 5 compulsory modules including the group project that make up 45 ECTS. You can then choose 3 additional elective modules aligned with your own interests.

In the third year of the course you are also required to select an I-Explore module hosted outside of the department so that you will be taught alongside students from other degree programmes. These modules include business and management modules as well as other topics outside the Bioengineering discipline that will allow you to apply your knowledge in a new context.

In your final year you will spend 6 months exclusively working on a substantial individual research project. This individual project will be hosted within a research group and allows you to gain an understanding of the latest developments in the Bioengineering field as well as develop your ability to work independently. As much of the final year is spent on this individual project this is reflected in the ECTS weighting of the project. The remaining 25 ECTS is made up of advanced modules that you choose.

Learning Outcomes

The following Learning Outcomes are in line with FEHQ levels 4-7 and the UK-SPEC outcomes required for accreditation by professional engineering bodies.

Upon successful completion of the CertHE Molecular Bioengineering programme you will be able to:

Knowledge and Understanding:

- Describe and explain some of the underlying scientific principles, engineering mathematics, computational tools and models, and laboratory and analysis techniques that underpin Molecular Bioengineering
- Describe and explain the basic concepts, principles and theories of Molecular Bioengineering, Biomolecular Analysis and Materials Engineering and how these are relevant to historical and current developments and technologies in a biological, pharmaceutical and medical context.
- Give examples of engineering solutions applied to healthcare problems and quality-of-life issues
- Recognise and explain the need for a high level of professional and ethical conduct in engineering

Intellectual abilities:

- Apply a range of engineering principles, tools and notations
- Select engineering principles and tools for the analysis and solution of familiar bioengineering problems

Practical and Transferable skills:

- Safely execute experiments in a defined range of laboratories
- Demonstrate practical skills in Chemistry, Molecular Biology, and Analytical Sciences
- Demonstrate teamwork and communication skills
- Accept responsibility for outputs

Upon successful completion of the DipHE Molecular Bioengineering programme you will be better able to:

Knowledge and Understanding:

- Describe and explain the underlying scientific principles, engineering mathematics, computational tools and models, and laboratory and analysis techniques that underpin Molecular Bioengineering

- Describe and explain the core concepts, principles and theories of Molecular Bioengineering, Biomolecular Analysis, Biomimetic Design, Synthetic Biology and Materials Engineering and how these are relevant to historical and current developments and technologies in a biological, pharmaceutical and medical context.

- Give examples of innovative and creative engineering solutions applied to healthcare problems and quality-of-life issues

- Recognise and explain the need for a high level of professional and ethical conduct in engineering

Intellectual abilities:

- Apply a range of engineering principles, tools and notations proficiently

- Select engineering principles and tools for the analysis and solution of familiar bioengineering problems

- Apply diagnostic skills, technical knowledge and understanding of engineering design processes to establish creative solutions to complex Bioengineering problems

- Extract pertinent data and information gathered from academic and technical resources

Practical and Transferable skills:

- Plan and safely execute experiments in a defined range of laboratories

- Demonstrate good practical skills in Chemistry, Molecular Biology, and Analytical Sciences using a range of current laboratory and analysis techniques

- Demonstrate leadership, teamwork and communication skills

- Accept accountability for achieving personal and/or group outcomes

Upon successful completion of the BEng Molecular Bioengineering programme you will be able to:

Knowledge and Understanding:

- Describe and explain the underlying scientific principles, engineering mathematics, computational tools and models, and laboratory and analysis techniques that underpin Molecular Bioengineering

- Describe and explain the core concepts, principles and theories of Molecular Bioengineering, Biomolecular Analysis, Biomimetic Design, Synthetic Biology and Materials Engineering and how these are relevant to historical, current and future developments and technologies in a biological, pharmaceutical and medical context.

- Give examples of innovative and creative engineering solutions applied to healthcare problems and quality-of-life issues and discuss these examples in terms of their commercial, economic and social implications

- Recognise and explain the need for a high level of professional and ethical conduct in engineering, based on a knowledge of professional codes of conduct and how ethical dilemmas can arise

Intellectual abilities:

- Apply a range of engineering principles, tools and notations proficiently

- Critically select engineering principles and tools for the analysis and solution of familiar bioengineering problems

- Apply diagnostic skills, technical knowledge and understanding of engineering design processes to establish creative solutions to complex Bioengineering problems

- Extract pertinent data and critically evaluate information gathered from academic and technical resources

Practical and Transferable skills:

- Plan and safely execute experiments in diverse types of laboratories
- Demonstrate advanced practical skills in Chemistry, Molecular Biology, and Analytical Sciences using a range of current and cutting-edge laboratory and analysis techniques
- Demonstrate leadership, teamwork and communication skills
- Exercise judgement in a range of situations and accept accountability for achieving personal and/or group outcomes

Upon successful completion of the MEng Molecular Bioengineering programme you will be able to:

Knowledge and Understanding:

- Describe and explain the underlying scientific principles, engineering mathematics, computational tools and models, and laboratory and analysis techniques that underpin Molecular Bioengineering and identify their limitations
- Describe and explain the core concepts, principles and theories of Molecular Bioengineering, Biomolecular Analysis, Biomimetic Design, Synthetic Biology and Materials Engineering and how these are relevant to historical, current and future developments and technologies in a biological, pharmaceutical and medical context.
- Give examples of a wide range of innovative and creative engineering solutions applied to healthcare problems and quality-of-life issues and discuss these examples in terms of their commercial, economic and social implications
- Recognise and explain the need for a high level of professional and ethical conduct in engineering, based on a knowledge of professional codes of conduct and how ethical dilemmas can arise

Intellectual abilities:

- Apply a range of engineering principles, tools and notations proficiently
- Critically select engineering principles and tools for the analysis and solution of familiar and unfamiliar bioengineering problems
- Apply diagnostic skills, technical knowledge and understanding of engineering design processes to establish rigorous and creative solutions to complex Bioengineering problems
- Extract pertinent data and critically evaluate information gathered from academic and technical resources

Practical and Transferable skills:

- Plan and safely execute experiments in diverse types of laboratories
- Demonstrate advanced practical skills in Chemistry, Molecular Biology, and Analytical Sciences using a range of current and cutting-edge laboratory and analysis techniques
- Demonstrate advanced leadership, teamwork and communication skills
- Exercise judgement in a range of situations and accept accountability for decisions made and the quality of outcomes produced
- employ advanced skills to plan and conduct research, advanced technical and professional activities

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: www.imperial.ac.uk/students/academic-support/graduate-attributes	
Entry Requirements	
Academic Requirement A- Level IB	The minimum requirement is normally A*AA overall at A-level This usually comprises of: A* in Mathematics A in Chemistry A in any further subject preferably biology, physics or further mathematics (or a comparable qualification recognised by the College). Minimum **38** points (or a comparable qualification recognised by the College **6** in Mathematics at higher level **6** in Chemistry at higher level **6** in a third subject at higher level (or a comparable qualification recognised by the College). For further information on entry requirements, please go to https://www.imperial.ac.uk/study/ug/apply/requirements/ugacademic/
Non-academic Requirements	N/A
English Language Requirement	Standard requirement Please check for other Accepted English Qualifications
Admissions Test/Interview	Selected applicants are invited to an interview day. This usually involves an introduction talk about the department and degree options, followed by group activities and individual interviews with two members of staff including an academic. The day finishes with a tour of the department. For students who are invited but cannot attend an interview day in person an admissions test may be offered. This is a bespoke written test supplied to the candidate comprising of a short series of maths and bioengineering questions. Based on the results of this test a Skype interview may be arranged.
The programme's competency standards documents can be found at: https://www.imperial.ac.uk/media/imperial-college/faculty-of-engineering/bioengineering/public/student/Competency-Standards---Bioengineering-UG-PG---June-2016-Final.pdf	

Learning & Teaching Approach

Scheduled Learning & Teaching

Students are taught through a combination of lectures, study groups and tutorials, laboratories and computing labs, guest lectures and presentations. Study groups and tutorials will enable you to discuss and develop your understanding of topics covered in lectures whilst in smaller groups of around 30 students. Dry laboratories in electronics, mechanics and bioengineering will allow you to develop practical skills and gain experience in the application of the theory discussed in lectures and study groups. Wet laboratories will allow you to develop practical skills and develop an understanding of how to handle biological and chemical materials. You will undergo extensive amounts of wet laboratory work throughout this programme and so become familiar with routine methods and analysis techniques. Computing labs will support the maths and computational content of the course. In laboratories you will work in pairs or trios.

The Virtual learning environment Blackboard will be used as a repository for teaching materials including recordings of all lectures, lecture notes and problem sheets. Learning technologies will be used to support teaching activities including in-class polling with Mentimeter, online self-diagnostic quizzes and online class forums.

The first two years of the programme will be made up of compulsory modules which all students on the programme will study. In years three and four, there will be a number of compulsory modules and you will be able to choose the remainder of modules you study.

Independent Learning
Students are expected to spend significant time on independent study outside of face to face contact time. From our experience students that undertake independent learning have improved academic performance, increased motivation and confidence in themselves and their abilities. By undertaking independent learning you are also preparing yourself for professional practice where it is expected that you will manage your own continued professional development. Independent learning activities that you will be expected to undertake will typically include accessing online resources, completing problem sheets, reading journal articles and books, undertaking research in the library, reviewing lecture notes and watching lecture recordings, working on individual and group projects, working on coursework assignments and revising for exams.

Bioengineering uses flipped teaching for some modules, meaning that you need to actively engage with on-line eModules ahead of attending timetabled sessions. This independent learning is followed by sessions lead by the lecturer where all students work in small groups to apply that knowledge to more practical examples. This helps you to further consolidate and enhance your understanding of the topics you study and allows us the time to focus on more challenging concepts in the taught sessions

Design and Research Projects
A key part of this programme are the second and third year group projects and the fourth year individual research project. In second and third year you will work in a small group to design, make and test a solution to a bioengineering problem. These projects will allow you to develop professional engineering skills and appreciate the subtleties of working in a team. You will also be given support in managing a team and giving effective feedback to others, which includes training and practice with the process of peer review which will form part of the assessment for these projects. For the process of peer review each member of a team is asked to provide relative effort marks for their team members via an anonymous on-line form. We guide you through this process, including an early practice run to ensure that this is fair and informative. In fourth year you are required to undertake a substantial research project embedded in a research team within the Bioengineering department. Whilst this project will be based in Bioengineering it may involve collaboration with groups in other Imperial departments or with Industry.

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 ECTS credit 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 (levels 4 and 5) you will spend around 25% of your time on lectures, seminars and other scheduled activity (around 400 hours) and around 75% of your time on independent study (around 1100 hours).

In the third and fourth years (level 6 and 7), you will spend less time in scheduled activity (around 250 hours) with the reminder in independent study, a significant proportion of which will be the 3rd year group project and 4th year individual research project.

Assessment Strategy

Assessment Methods

A variety of assessment methods will be used to test your understanding. Assessments are grouped as formative and summative.

Formative assessments do not contribute to the module mark but provide information on your progress as an individual and in the context of the class. This allows you to learn by using your new skills to solve problems and receive feedback on your performance to guide your future learning. This supports you to achieve a better performance in the summative assessments which do count towards your module marks. Formative assessments also provide feedback to the teaching staff which allow us to adapt our teaching.

Summative assessments are used to assess your learning against the intended module learning outcomes and contribute towards your achievement of the programme learning outcomes, detailed above. There is summative assessment during and/or at the end of each module and these assessments will contribute towards your mark for each year.

The choice of assessment method is largely determined by the learning objectives being assessed and includes:

Assessed Coursework

- Problem sheets
- Laboratory reports – individually or as part of a portfolio.
- Practical demonstrations
- Project reports
- Oral presentations
- Poster presentations
- Academic tutorials

Examinations

- In class progress tests
- Mastery examinations (online/written)
- Written examinations

The design of our programme will allow you to test your understanding of the subject using formative assessments such as problem sheets, on-line diagnostic tests and mock examinations before you complete the summative assessments that count towards your final mark.

The table below is indicative of the balance of assessment based on a typical pathway through the course.

	Year 1	Year 2	Year 3	Year 4
Coursework	34 %	53 %	47 %	59 %
Examinations	66 %	47 %	53 %	41 %

Academic Feedback Policy

Feedback will be provided in one of many formats, including:

- Oral (during or after lectures, personally or as a group feedback session)
- Personal (discussion with academics during office hours, meetings with Personal Tutors)
- Interactive (problem solving with GTAs & study groups, peer feedback)
- Written (solutions/model answers to coursework, notes on submitted reports)
- Online (results of online tests with correct answers provided)
- Self-reflective (personal journals, reflective essays and class discussion)

It is department policy to provide feedback to students within 10 working days of assessment submission. This timeframe may be extended for significantly large assessments or for final examinations. In this case the date when feedback will be available by will be communicated to students.

Individual feedback will not be provided on written examinations. However, feedback on the general performance

of the cohort on the exam questions will be given. Numerical results will be published after the meeting of the final Board of Examiners.

The College's Policy on Academic Feedback and guidance on issuing provisional marks to students is available at:
www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/

Re-sit Policy
Eligibility for resits is determined by the Departmental Board of Examiners in line with the College policy. The Department of Bioengineering does not normally offer resits in the same academic year. Students with marginal failure may be offered a re-assessment in place of a re-sit opportunity. The College's Policy on Re-sits is available at: www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/
Mitigating Circumstances Policy
The College's policy on mitigating circumstances makes provision for the Departmental Board of Examiners to use their discretion where extenuating circumstances are independently corroborated and are judged by the Departmental Mitigating Circumstances Board to be of sufficient severity to have substantially affected a student's performance. The College's Policy on Mitigating Circumstances is available at: www.imperial.ac.uk/student-records-and-data/for-current-students/undergraduate-and-taught-postgraduate/exams-assessments-and-regulations/

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
Course materials - Electronics textbook	Optional	£ 40
Personal Protective Equipment – Bioengineering Overalls	Mandatory	£ 26

Important notice: The Programme Specifications are the result of a large curriculum and pedagogy reform implemented by the Department and supported by the Learning and Teaching Strategy of Imperial College London. The modules, structure and assessments presented in this Programme Specification are correct at time of publication but might change as a result of student and staff feedback and the introduction of new or innovative approaches to teaching and learning. You will be consulted and notified in a timely manner of any changes to this document.

Programme Structure[1]					
Year 1 – FHEQ Level 4 **Students study all modules.**					
Code	Module Title	Core/ Elective	Group*	Term	Credits
BIOE40 008	Molecules and Energetics 1	Compul sory	N/A	1,2,3	15
BIOE40 007	Medical and Biochemical Science 1	Compul sory	N/A	1,2,3	15
BIOE40 005	Mathematics and Engineering 1	Compul sory	N/A	1,2,3	15
BIOE40 002	Computer Fundamentals and Programming 1	Compul sory	N/A	1,2,3	10
BIOE40 003	Design and Professional Practice 1	Compul sory	N/A	3	5
				Credit Total	60
Year 2 - FHEQ Level 5 **Students study all modules.**					
Code	Module Title	Core/ Elective	Group	Term	Credits
	Molecules, Materials and Measurement 2	Compul sory	N/A	1,2	15
	Medical and Biochemical Science 2	Compul sory	N/A	1,2,3	15
	Mathematics and Engineering 2	Compul sory	N/A	1,2,3	15
	Programming 2	Compul sory	N/A	1	5
	Design and Professional Practice 2	Compul sory	N/A	1,2,3	10
				Credit Total	60
Year 3 - FHEQ Level 6 **Students study all compulsory modules. Students can then choose 3 elective modules from group A, across FHEQ level 6 & 7 modules – subject to sitting at least 60 ECTS at level 7 modules (including the Individual project) in years 3 and 4.**					
Code	Module Title	Core/ Elective	Group	Term	Credits

[1] **Core** modules are those which serve a fundamental role within the curriculum, and for which achievement of the credits for that module is essential for the achievement of the target award. Core modules must therefore be taken and passed in order to achieve that named award. **Compulsory** modules are those which are designated as necessary to be taken as part of the programme syllabus. Compulsory modules can be compensated. **Elective** modules are those which are in the same subject area as the field of study and are offered to students in order to offer an element of choice in the curriculum and from which students are able to select. Elective modules can be compensated.

	Probability and Statistics for Bioengineering	Compulsory	N/A	1	5
	MEng Group Project	Core	N/A	1,2,3	20
	Biomaterials**	Compulsory	N/A	1	5
	Foundations of Synthetic Biology	compulsory	N/A	2	5
	I-Explore	Compulsory	N/A	1 and/or 2	5 or 7.5
	Image Processing	Elective	A	2	5
	Digital Biosignal Processing	Elective	A	1	5
	Programming 3	Elective	A	1	5
	Human Centred Design of Assistive and Rehabilitation Devices	Elective	A	2	5
	Tissue Engineering and Regenerative Medicine	Elective	A	1	5
	Advanced Imaging Technologies for Systems Biology	Elective	A	2	5
	Communicating Biomedical Science and Engineering	Elective	A	1	5

Year 3 - FHEQ Level 7

Code	Module Title	Core/ Elective	Group	Term	Credits
	Modelling in Biology	Compulsory	N/A	1	5
	Hearing and Speech Processing	Elective	A	1	5
	Biomimetics	Elective	A	2	5
				Credit Total	60

Year 4 - FHEQ Level 7 (except Ŧ)

Students must complete the core Individual Project module (35 ECTS)

Students can then choose 4 elective modules from Group B, and 1 from Group C, across levels 6 and 7 (30 ECTS)

Please note: You must accumulate 60 ECTS of level 7 modules by the end of Year 4.

Ŧ Level 6 modules

****Modules hosted by other departments. These are subject to availability.**

Code	Module Title	Core/ Elective	Group	Term	Credits

	MEng Individual Project	Core	N/A	1,2,3	35
	Advanced Synthetic Biology	Elective	B	1	5
	Advanced Chemical Sensors	Elective	B	1	5
	Advanced Physiological Monitoring and Data Analysis	Elective	B	1	5
	Principles of Biomedical Imaging	Elective	B	1	5
	Tissue and Molecular Imaging	Elective	B	2	5
	Cellular and Molecular Mechanotransduction	Elective	B	2	5
	Animal Locomotion and Bioinspired Robotics	Elective	B	2	5
	Medical Device Entrepreneurship	Elective	B/C	1	5
	Hearing and Speech Processing	Elective	B	1	5
	Biomimetics	Elective	B	2	5
	Business for Professional Engineers and Scientists ₸	Elective	C	1,2	5
				Credit Total	60

* ‘Group’ refers to module grouping (e.g. a group of electives from which one/two module(s) must be chosen).

** Modules hosted in other departments are subject to availability.

Progression and Classification

Progression

Year One
A student must:

- Achieve a mark of at least 40.00% in each module. A student may be condoned in modules up to the value of 15 ECTS with a qualifying mark of at least 30.00%. Note the programme specific regulation that only 15 ECTS may be compensated over the whole degree.

Year Two
A student must:

- Achieve a mark of at least 40.00% in each module. A student may be condoned in modules up to the value of 15 ECTS with a qualifying mark of at least 30.00%.
- Achieve an overall aggregate mark of at least 60.00% to remain on the MEng pathway.
- A student achieving between 55.00% and 60.00% may at the discretion of the Director of Courses be allowed to remain on the MEng program subject to agreed module choices, provided a case is made by the student.
- A student achieving an overall aggregate mark of less than 55.00% but satisfying all other requirements will be transferred to the programme (BEng Molecular Bioengineering H161). Students transferred to the BEng programme will undertake a BEng Individual Project in Year Three.

Year Three
A student must:

- Achieve a mark of at least 40.00% in each module. A student may be condoned in modules up to the value of 15 ECTS with a qualifying mark of at least 30.00%.

Year Four
A student must:

Achieve a mark of at least 40.00% in each module. A student may be condoned in modules up to the value of 15 ECTS with a qualifying mark of at least 30.00%.

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 the MEng award, Year One is weighted at 7.50%, Year Two at 20.00% and Years Three and Four at 36.25%.
For the BEng award, Year One is weighted at 7.50%, Year Two at 35.00% and Year Three at 57.50%.

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

i)	First	70.00% or above for the average weighted module results
ii)	Upper Second	60.00% or above for the average weighted module results
iii)	Lower Second	50.00% or above for the average weighted module results
iv)	Third	40.00% or above for the average weighted module results

Please find the full Academic Regulations at https://www.imperial.ac.uk/about/governance/academic-governance/regulations/. Please follow the prompts to find the set of regulations relevant to your programme of study.

Programme Specific Regulations

You must complete a Business based elective at level 6 to meet the learning outcomes set by the professional engineering bodies for accreditation. This can be achieved by selecting in year 4 a group H Module (BPES module or Medical Device Design and Entrepreneurship). If your choice of an iExplore module in year 3 was a BPES module, you are exempt from this requirement and can select another technical elective module from group B in year 4.

To ensure you complete 60 ECTS at level 7 across years 3 and 4 we have made the level 7 module 'Modelling in Biology' compulsory in year 3. To allow you the greatest range of flexibility in technical elective options we also allow you to take further level 7 modules in year 3 and some level 6 modules in year 4 as detailed in the programme structure section of this document.

To meet professional engineering accreditation requirements no more than 15 ECTS may be compensated on this degree programme.

Supporting Information
The Programme Handbook is available at: https://www.imperial.ac.uk/bioengineering/admin/current-ug
The Module Handbook is available at: http://www.imperial.ac.uk/bioengineering/admin/current-ug/
The College's entry requirements for postgraduate programmes can be found at: www.imperial.ac.uk/study/pg/apply/requirements
The College's Quality & Enhancement Framework is available at: www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance
The College's Academic and Examination Regulations can be found at: www.imperial.ac.uk/about/governance/academic-governance/regulations
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) www.officeforstudents.org.uk/advice-and-guidance/the-register/
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