

MBBS Medicine | BSc Medical Sciences with (specialism)

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 intended as a reference point for prospective students, current students, external examiners and academic and support staff involved in delivering the programme and enabling student development and achievement.

Programme Information

Programme Title	Medicine	Medical Sciences with (specialism)		
Award(s)	MBBS	BSc		
Programme Code	A100			
Awarding Institution	Imperial College London			
Teaching Institution	Imperial College London			
Faculty	Faculty of Medicine			
Department	School of Medicine			
Main Location of Study	South Kensington Campus			
Associateship	Imperial College School of Medicine (AICSM)			
Mode and Period of Study	6 academic years, full-time			
Cohort Entry Points	Annually in October			
Relevant QAA Benchmark Statement(s) and/or other external reference points	Degrees in Medicine GMC Undergraduate Standards & Guidance (including 'Outcomes for Graduates')			
Total Credits	ECTS:	380	CATS:	760

Students who complete this programme will not be awarded credit. The programme is given notional credit values in this programme specification as an indication of typical student effort.

FHEQ Level	BSc	Level 6
	MBBS	Level 7
EHEA Level	BSc	1 st cycle
	MBBS	2 nd cycle
External Accrator(s)	General Medical Council	

Specification Details	
Student cohorts covered by specification	2018/19 entry
Person responsible for the specification	Rebekah Fletcher, Head of School Secretariat
Date of introduction of programme	-
Date of programme specification/revision	March 2018
Programme Overview	
<p>Our Faculty of Medicine is among the largest in Europe, with a wide range of partners including NHS trusts, hospitals and clinics, both inside and outside of London.</p> <p>This dual award degree is delivered through a range of innovative and traditional teaching methods, including lectures, computer workshops, laboratory classes and problem-based learning. You gain clinical experience from the very beginning of your degree, giving you direct contact with a large and diverse patient population, and ensuring a broad and balanced experience throughout your studies.</p> <p>Those who successfully complete the course will graduate with:</p> <ul style="list-style-type: none"> • Bachelor of Science (BSc) • Bachelor of Medicine and Bachelor of Surgery (MBBS) <p>The Bachelor of Science component of the course allows you to develop research skills, and the award title will reflect one of our intercalated options. The MBBS component of the course is the qualification required to become eligible to practice as a doctor.</p> <p>There is a strong scientific emphasis throughout the degree, allowing you to develop skills in research techniques and methodology and an ability to apply evidence-based medicine wherever you practise.</p> <p>Our course is accredited by the General Medical Council, and is aimed at those who do not already have a first degree. Those who already have a first degree in a relevant discipline and achieved at least a 2:1 can apply to MBBS Graduate Medicine (A109).</p> <p>The curriculum of this course reflects the values of the NHS Constitution: “Working together for patients, respect and dignity, everyone counts, commitment to quality of care, compassion and improving lives”. Further research of NHS Values, the NHS Constitution and how you might organise some relevant work experience are essential to making a strong application.</p> <p>Your first two years are spent forming a scientific basis for medicine and covering the foundations of clinical practice.</p> <p>In the third year you can expect three 10-week clinical attachments with any of the healthcare providers associated with Imperial.</p> <p>The fourth year is the BSc year, where you will take up one of the Intercalated BSc options (see 'Structure' below).</p> <p>In the fifth year there is a dedicated pathology unit, as well as the opportunity to select a specialty choice placement. You will complete your studies in the sixth year through a range of clinical</p>	

attachments, professional work experience courses, specialised study modules and an elective period. The elective period lasts for eight weeks and can take place in the UK or overseas. Graduates with an MBBS degree have a primary medical qualification (PMQ), which is what you will need to continue your training in medicine.

Learning Outcomes

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

Knowledge and Understanding of:

- Molecular and cellular organisation of the body including processes underlying growth, reproduction, and ageing; selected medically important examples of perturbation of these processes in disease (Years 1 and 2)
- Basic principles of infection and immunity, exemplified by selected medically important examples (Years 1 and 2)
- Normal structure and function of the body's systems and understanding of how they interrelate and interact; the nature of homeostasis and its expression in regulation of function in the human body, including medically important consequences of failure of homeostatic mechanisms (Years 1 and 2)
- Structure and function of the nervous system; biological dysfunction and mental illness (Years 1 and 2)
- Pharmacological principles underlying the actions and use of the main medically important types of drugs (Years 1 and 2)
- Principles and application of statistical analysis in medicine
- Behaviour and relationships between individuals, social groups and society with emphasis on relevance to health and illness (Year 1)
- Common disease processes, their aetiology, manifestations and the physical and psychological consequences for the patient, family and society
- Basic principles of epidemiology, public health, health promotion and preventive medicine
- Principles of organisational and self-management, the consequences of disease and its treatment, and rehabilitation of patients
- Social and psychological consequences of chronic and acute illness, impairment, disability and handicap for the patient, family and community
- The management of health care from the perspectives of the individual, organisation and wider society
- Basic principles of medical ethics and law
- The impact of new technologies (including computers) on the practice of medicine
- Research methodologies relevant to chosen BSc course
- The body of knowledge underlying the BSc project
- The characteristics of good as opposed to poor research

Intellectual Skills:

- Apply critical, evidence-based reasoning to scientific and medical problems
- Evaluate the reliance to be placed on particular items of information
- Integrate and organise information obtained from various sources
- Formulate and test hypotheses
- Recognise influence of own values and those of patients on perception of clinical situations

- Make a provisional diagnosis and undertake the investigation and management of a defined range of clinical problems
- Carry out a critical appraisal of scientific literature using library periodicals and books and computer-based information retrieval systems in order to base clinical practice on appropriate evidence
- Analyse clinical and scientific problems, formulate learning goals and identify strategies for problem solving
- Design experiments and apply experimental reasoning to research and problem solving
- Apply knowledge and understanding of research methodology to chosen area of BSc study

Practical Skills:

- Carry out practical work as instructed in an organised and safe manner (Years 1 and 2)
- Use safe technique in the handling of body fluids (Year 1)
- Make and record microscopic observations accurately (Year 1)
- Make reproducible and reasonably accurate measurements of basic cardiovascular and respiratory parameters (Year 1)
- Demonstrate structural features of the living body of importance in a physical examination (Years 1 and 2)
- Use stethoscope to listen to heart and breath sounds (Year 1)
- Demonstrate major structures in X-rays, Computerised Tomography (CT) and Magnetic Resonance Imaging (MRI) scans of normal patients; notice conspicuous deviations from the normal range (Years 1 and 2)
- Obtain and record a comprehensive history and perform a complete physical and mental state examination
- Perform clinical procedures routinely carried out during F1 posts as identified by the GMC
- Use computers to record, analyse, retrieve and present data through the appropriate use of word processing, spread sheet, database and statistical software
- Carry out a range of laboratory based skills and apply experimental techniques to research and problem solving (BSc)

Transferable Skills:

- Communicate effectively with others including patients, relatives, colleagues and other health and social care professionals orally, in writing and through use of information technology
- Work effectively as a member and as a leader of a team
- Communicate effectively and appropriately with patients, colleagues and students, particularly in giving and obtaining appropriate information; be a good and sensitive listener
- Manage own time and workload and set priorities

Attitudes and Professional Values:

- Take responsibility for own learning both as an undergraduate and after graduation
- Demonstrate a flexible, enthusiastic attitude that is responsive to change
- Adapt clinical behaviour in the light of new knowledge; to apply scientific method and an evidence based approach to medical decision making and the ability to tolerate uncertainty and share this appropriately with colleagues and patients
- Build an awareness of own limits of knowledge and skills and an awareness to extend boundaries
- Develop respect for the individuality and values of others - (including having respect for oneself) patients, carers, colleagues and other health professionals

- Show awareness of the impact of prejudice and discrimination (including their own) on medical practice
- Develop a capacity for self-audit and active participation in peer review
- Exhibit awareness and understanding of professional responsibilities including the delivery of the highest possible standard of clinical care within recognised constraints; providing appropriate support for colleagues and peers; working as a member of a team; being able to ask for help; contributing to teaching and research and maintaining professional confidentiality
- Apply a patient-centred approach which acknowledges patients' expectations and perceptions; their health beliefs and autonomy, their right to confidentiality and informed consent and maintaining a balance between empathy and objectivity in order to alleviate patients' distress and suffering
- Demonstrate recognition of the whole person within their community – social, psychological and biological
- Show critical awareness of the diversity, strengths and weaknesses of different attitudes within the medical profession.

Minimum Entry Requirements

A-level	Grade Requirement	Minimum AAA overall
	Subject Requirements	A in Chemistry A in Biology A in a third subject Pass in the practical science assessment for all science subjects which form part of the offer
	Excluded Subjects	General Studies Critical Thinking
International Baccalaureate (IB)	Grade Requirement	Minimum 38 overall
	Subject Requirements	6 in Chemistry 6 in Biology
GCSE Requirements		None
English Language Requirement		Standard requirement IELTS score of 6.5 overall (minimum 6.0 in all elements)
Admissions Tests		BioMedical Admissions Test (BMAT)
Interview		Selected applicants only
The programme's competency standards document can be found at: https://www.imperial.ac.uk/medicine/study/undergraduate/key-programme-information/		
Learning & Teaching Strategy		

<p>Scheduled Learning & Teaching Methods</p>	<ul style="list-style-type: none"> • Lectures • Clinical demonstrations • Tutorials • Seminars • Computer workshops • Laboratory practical • Clinical skills classes • Problem-based learning
<p>E-learning & Blended Learning Methods</p>	<ul style="list-style-type: none"> • Panopto • Blackboard • Sofia
<p>Project and Placement Learning Methods</p>	<ul style="list-style-type: none"> • Clinical placements • Professional work experience attachments • Research project • Patient Clerking • GP Training
<p>Assessment Strategy</p>	
<p>Assessment Methods</p>	<ul style="list-style-type: none"> • Coursework • Written examinations • Clinical examinations • Multiple choice tests • Mini-projects • Written reports • Research project • Presentations • In-course assessment
<p>Academic Feedback Policy</p>	
<p>Feedback is provided to students on their performance in all years of the MBBS/BSc. The style of feedback provided varies depending on the style of teaching given in the various sections of the six year course, including: a formative examination in Year 1, formative online self-assessments, formative in-class tests marked there and then, immediate verbal feedback during clinical teaching, marks and domain based performance indicators in clinical exams.</p> <p>We recognise that feedback is important in students' development and continuously strive to improve in this area. We provide formal, paper-based feedback to students on their performance in the Year 3 OSCE, and the Year 5 PACES and Pathology summative examinations. Ranking information is also provided. Students are encouraged to discuss their examination performance with their tutors.</p> <p>In Years 1, 2 and 4, students receive feedback on coursework in various forms throughout the course. It is College policy that students receive feedback on coursework within two weeks of submission. We monitor the timeliness of feedback via Blackboard.</p>	
<p>Re-sit Policy</p>	

In line with College policy, students who are unsuccessful in any of their examinations may usually be allowed an opportunity to re-sit at the discretion of the Board of Examiners.

The College's Policy on Examination Re-sits is available at:

<https://www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/>

Specific information regarding re-sits for MBBS/BSc degrees in the Faculty of Medicine can be found in the relevant Academic Regulations available at:

<https://www.imperial.ac.uk/about/governance/academic-governance/regulations/>

Mitigating Circumstances Policy

Students may be eligible to apply for mitigation if they have suffered from serious and unforeseen circumstances during the course of their studies that have adversely affected their ability to complete an assessment task and/or their performance in a piece of assessment.

The College's Policy on Mitigating Circumstances is available at:

<https://www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/>

Assessment Structure

Programme Weightings (MBBS)

All assessments and modules are pass/fail and are therefore not weighted.

Programme Weightings (BSc)

Information on the BSc weightings is available at:

<https://www.imperial.ac.uk/media/imperial-college/administration-and-support-services/registry/academic-governance/public/academic-policy/new-ug-and-pgt-programmes/School-of-Medicine-undergraduate-year-weightings.pdf>

Rules of Progression

Year One

A student must:

- A student must achieve a 'pass' in each assessment;
- Achieve an aggregate mark of at least 40% in the 'BSc component'

Year Two

A student must:

- A student must achieve a 'pass' in each assessment;
- Achieve an aggregate mark of at least 40% in the 'BSc component'

Year Three

A student must achieve a 'pass' in each assessment

Year Four

Non-Management Specialism

A student must achieve an aggregate mark of at least 40% in each assessment

Management Specialism

A student must achieve an aggregate mark of at least 40% in each module

Year Five

A student must achieve a 'pass' in each assessment

Year Six

A student must achieve a 'pass' in each assessment

Marking Scheme

Final Degree Classifications (MBBS)

Pass – a student must achieve a 'pass' in each assessment

Final Degree Classifications (BSc)

Third – a student must achieve an aggregate mark of 40%

Lower Second – a student must achieve an aggregate mark of 50%

Upper Second – a student must achieve an aggregate mark of 60%

First - a student must achieve an aggregate mark of 70%

Indicative Module List								
Code	Title	Core/ Elective	Year	% Written Exam	% Course- work	% Practical	FHEQ Level	ECTS
	Molecules, Cells and Diseases I	Core	1	100%	0%	0%	4	12
	Foundations of Clinical Practice I	Core	1	0%	100%	0%	4	14
	Life Support Systems	Core	1	80%	20%	0%	4	22
	Life Cycle and Regulatory Systems I	Core	1	100%	0%	0%	4	7
	Clinical Research and Innovation I	Core	1	0%	100%	0%	4	5
	Molecules, Cells and Diseases II	Core	2	100%	0%	0%	5	6.5
	Life Cycle and Regulatory Systems II	Core	2	90%	10%	0%	5	25
	Clinical Research and Innovation II	Core	2	20%	80%	0%	5	12.5
	Foundations of Clinical Practice II	Core	2	100%	0%	0%	5	16
	Clinical Placement I	Core	3	0%	100%	0%	6	60
	Intercalated BSc	Elective	4	Varies			6	60
	Clinical Placement II	Core	5	0%	100%	0%	7	70
	Clinical Placement III	Core	6	0%	100%	0%	7	70

Supporting Information			
The Programme Handbook is available at: TBC			
The Module Handbook is available at: TBC			
The College's entry requirements for undergraduate programmes can be found at: www.imperial.ac.uk/study/ug/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: http://www3.imperial.ac.uk/registry/proceduresandregulations/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". http://www.imperial.ac.uk/admin-services/secretariat/college-governance/charters/charter-and-statutes/			
Imperial College London is regulated by the Office for Students (OfS) https://www.officeforstudents.org.uk/			
Modification			
Replace Science and Patient II with Clinical Research and Innovation	Programmes Committee	09 May 2017	PC.2016. 105
Changes to the programme structure to move the Speciality Choice Placement from Year 6 to Year 5	Programmes Committee	27 March 2018	PC.2017.54