Imperial College London

Programme Information		
Programme Title	Programme Code	HECoS Code
BSc Medical Sciences with specialism	For Registry Use Only	For Registry Use Only

Award	Length of Study	Mode of Study	Entry Point(s)	Total Credits	
				ECTS	CATS
BSc (Intercalated)	1 Academic year	Full-Time	Annually in September	60	120

Ownership			
Awarding Institution	Imperial College London	Faculty	Faculty of Medicine
Teaching Institution	Imperial College London	Department	School of Medicine
Associateship	N/A	Main Location(s) of Study	Various campuses

External Reference	
Relevant QAA Benchmark Statement(s) and/or other external reference points	Degrees in Medicine GMC Undergraduate Standards & Guidance (including 'Tomorrow's Doctors')
FHEQ Level	Level 6
EHEA Level	1st cycle

External Accreditor(s) (if applicable)			
External Accreditor 1:	General Medical Council		
Accreditation received:	Current iteration 2014	Accreditation renewal:	

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 Alison McGregor; Director of Undergraduate Science
Student cohorts covered by specification	2023-2024 entry

Date of introduction of programme	September 2018
Date of programme specification/revision	August 2023

Programme Overview

Our **intercalated BSc** aims to create clinicians and academics with the ability to interpret and inform best practice, and to extend boundaries of current thinking and advance medicine.

You will develop consistent foundations in research skills, from which you can grow into a competent clinician and clinical researcher. You will select a specialism which will inform the basis of your research training.

The course will comprise a 12-week teaching block where you will gain specialism-specific knowledge and skills, alongside your research training of core research knowledge and skills. You will also perform a 12-week research project, followed by a 3-week write-up and presentation block, within your specialism.
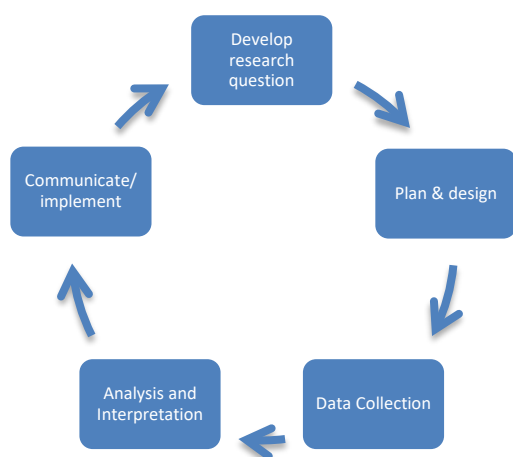
This emphasis on research will equip you with an understanding of research principles, and enable you to participate in the entire **research process**, from research design to dissemination and evaluation, as outlined in the schematic below.

The programme is designed to expand your knowledge and skills in a specific research subject area, including its theoretical foundations and the specific techniques used to study it.

It will provide you with a link between your early years' research experience, evidence-based clinical practice and subsequent postgraduate opportunities and career-long learning.

You will receive a range of teaching approaches from a collection of educators in your chosen specialism, from the innovative teaching methods of our Teaching Fellows to the expertise of renowned Professors within the field.

The Research Process

Learning Outcomes

The BSc Learning Outcomes are aligned to the General Medical Council 2018 'Outcomes for Graduates'. Upon successful completion of the programme you will be better able to :

Professional Values and Behaviours

1. Demonstrate and apply the principles and ethics of academic integrity and quality
2. Demonstrate curiosity and thoughtfulness and be able to question or justify "accepted" facts and theories
3. Demonstrate effective team and individual work

Professional Skills

4. Manage, analyse and interpret research data, quantitative and qualitative evidence
5. Critically appraise the strengths and weaknesses of research work
6. Integrate different types of information and knowledge to justify a point of view
7. Design a robust study plan to address a research question
8. Communicate research effectively to a range of audiences

Professional Knowledge

9. Demonstrate an understanding of the research process, including discussion of the rationale, characteristics and limitations of different research approaches
10. Discuss the translation of research to the clinical forum as well as the application of an informed approach to patient care
11. Demonstrate an in-depth understanding of the chosen BSc subject

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	Registration on a General Medical Council (GMC)-recognised MBBS Degree (or equivalent). Students must have successfully completed the first two years of that programme. No break in studies is permitted between the programme at the other institution and the beginning of the programme for the BSc degree. Applicants should normally demonstrate performance at 2:1 (upper second class) or equivalent.
Non-academic Requirements	Applicants from universities other than Imperial College will apply through a process which requires an academic transcript, one academic reference and a personal statement.
English Language Requirement	Higher requirement Please check for other Accepted English Qualifications
Admissions Test/Interview	Not applicable for internal students. Intercalating students will follow a process of application and short listing and interviews if required

The programme's competency standards document is available from the department.

Learning & Teaching Approach

Learning and Teaching Delivery Methods

Depending on your specialism, you may expect to be taught through a combination of lectures, laboratory practicals, clinical demonstrations, small group teaching (seminars, tutorials, debates, team based learning, journal club, discussions), self-directed team work, workshops and field trips.

Your Taught Component of the course will consist of a 12-week module: 9 weeks of face-to-face teaching, with 3 weeks of consolidation opportunity (See Teaching Structure figure below). Face-to-face teaching will be supplemented by online teaching materials in a flipped classroom approach, allowing you the opportunity to practise critical questioning and thinking. The consolidation periods provide you and our academics the opportunity to pause, reflect, revise, prepare, undertake in-course assessment tasks, and give and receive feedback.

During the programme, you will develop your self-directed learning, both individually and in groups, with academic mentorship. You will also have the opportunity to undertake a wide variety of supervised research projects, including laboratory-based and clinical based projects.

E-learning and Blended Learning Methods

Technology Enhanced Learning is used extensively throughout the programme to complement other modes of teaching. This will include the use of our virtual learning environment, Insendi, flipped classroom models and online quizzes.

Project and Placement Learning Methods

You will have the opportunity to undertake a wide variety of supervised research projects, including laboratory-based, and clinical based projects. Projects will provide you with a range of learning methods including technology-enhanced learning, guided reading and self-directed learning

Overall Workload

Your overall workload consists of face-to-face sessions and independent learning. While your actual contact hours may vary according to the specialism you choose to study, your first module will be broadly taught in face to face sessions, the second will be largely group-based self-directed learning and the final module will be primarily supervised independent study and project work. 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.

Teaching Structure

*Please note that the pathway Humanities, Philosophy and Law will merge MODULE ONE and MODULE TWO (i.e. the TEACHING Block (12 weeks) and the SELF-DIRECTED LEARNING Block (4 weeks)). Some assessment weightings will be different to those provided here.

**The Assessment weightings are provided per in-course assessment task. These are the overall BSc weightings (Please see Assessment Structure).

Assessment Strategy

Assessment Methods

The programme's range of in-course assessments will evaluate your specialism specific knowledge within scientific context as well as your research skills, including review of literature and evidence, data management and analysis, interpretation and communication of findings. You will also be assessed on your group work and your individual project work.

You will have the opportunity to test your understanding of your specialism through formative assessments before you complete the summative assessments that count towards your final mark. These summative assessments will allow you to demonstrate that you have met the intended learning outcomes for each module and contribute towards your achievement of the programme learning outcomes detailed above. You can expect a variety of in-course assessment methods that are suited to the field of academia.

Specialisms may have individual variation; please refer to **pathway module specifications (particularly Humanities, Philosophy and Law)**

Written assessments may include:
- Project report
- Review articles
- Scientific Abstracts
- Lay communications/press releases
- Digital storytelling
- Report writing

Oral assessments may include:
- Oral presentation of research project and future directions
- Oral presentations or debates of controversial issues; draw appropriate conclusions, and justify a point of view
- Poster presentation of clinical case study

Assessment Structure

Summative Assessments	Weighting within module (%)	Overall BSc weighting (%)	Programme level learning outcomes assessed	Module level learning outcomes assessed
Module 1				
Assessment of scientific knowledge	**30%**	**9%**		
1. Written task 2. Oral task	15% 15%	4.5% 4.5%	1. 2, 5, 6, 9, 10, 11 + pathway LO 2. 1, 2, 5, 6, 9, 11 + pathway LO	1. 1, 2, 3, 4, 8, 9, 10, 11 + pathway LO 2. 1, 2, 3, 4, 7, 8, 9, 10, 11 + pathway LO
Assessment of data management 3. Data management in context of current knowledge base Written task for non-scientific audience	**70%**	**21%**	4, 6, 8, 9 + pathway LO	5, 6, 7, 9, 10, 11 + pathway LO
Module 2				

Assessment of group work and appraisal of literature
 	
   4. Group literature review
     a) Submit literature review
     b) Peer-review another group's work
     c) Submit revised review
	60%	**15%**	3, 5, 6, 7 + pathway LO	1, 2, 3, 4, 5, 6, 7, 9, 10 + pathway LO

Science in Context				
5. Clinical case study	**40%**	**10%**	5, 6, 7, 10 + pathway LO	2, 8, 9, 10 + pathway LO
Module 3				
Assessment of BSc project				
6. Project report 7. Oral presentation	78% 22%	35% 10%	1, 3, 4, 5, 6, 7, 9, 10 + pathway LO	1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 + pathway LO

*Please note that the pathway Humanities, Philosophy and Law will undertake two written tasks in MODULE 1 in addition to the oral task and data interpretation. Some assessment weightings will be different to those provided here.

Academic Feedback Policy

Feedback on formal formative and summative assessment is normally provided within two working weeks. Feedback on non-assessed work may involve immediate verbal feedback on learning activities, and peer and self-assessment. Rapid feedback may be facilitated through discussion during small group and one-to-one tutorials, as well as via the VLE.

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

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 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
N/A	N/A	N/A

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]					

Phase 2 – FHEQ Level 6
Students choose one elective module from Group A and one elective module from Groups B and C. Students may only take Self-directed Learning; Group and independent analyses in Humanities, Philosophy and Law and Research Project in Humanities, Philosophy and Law if they have completed Topics in Humanities, Philosophy and Law.

Code	Module Title	Core/Elective	Group*	Term	Credits
MEDI60003	Topics in Anaesthesia and Critical Care	Elective	A	Autumn	25
MEDI60004	Topics in Cancer Frontiers	Elective	A	Autumn	25
MEDI60005	Topics in Cardiovascular Sciences	Elective	A	Autumn	25
MEDI60006	Topics in Endocrinology	Elective	A	Autumn	25
MEDI60007	Topics in Gastroenterology and Hepatology	Elective	A	Autumn	25
MEDI60001	Topics in Global Health	Elective	A	Autumn	25
MEDI60002	Topics in Molecular and Translational Haematology	Elective	A	Autumn	25
MEDI60015	Topics in Humanities, Philosophy and Law	Elective	A	Autumn	25
MEDI60008	Topics in Immunity and Infection	Elective	A	Autumn	25
MEDI60009	Topics in Neuroscience and Mental Health	Elective	A	Autumn	25
MEDI60010	Topics in Pharmacology	Elective	A	Autumn	25
MEDI60011	Topics in Remote Medicine	Elective	A	Autumn	25
MEDI60012	Topics in Reproductive and Developmental Sciences	Elective	A	Autumn	25
MEDI60013	Topics in Surgical Design, Technology and Innovation	Elective	A	Autumn	25
MEDI60014	Topics in Translational Respiratory Medicine	Elective	A	Autumn	25
MEDI60016	Group and Independent Analyses	Elective	B	Spring	10
MEDI60017	Group and Independent Analyses in Humanities, Philosophy and Law	Elective	B	Spring	10
MEDI60018	BSc Medical Sciences Research Project	Elective		Summer	25
MEDI60019	Research Project in Humanities, Philosophy and Law	Elective		Summer	25
				Credit Total	60

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[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.

Progression and Classification

Progression

In order to progress to the next level of study, you must have passed all modules and each component thereof (equivalent to 60 ECTS) in the current level of study at first attempt or at resit. The overall weighted average for the year must be 40.00% and an aggregate mark of at least 40.00% in each module is required in order for you to progress to the next year of the programme. Formative assessments are for the student benefit, and feedback will only be provided on work submitted within the deadline.

Final Degree Classifications

Third – a student must achieve an aggregate mark of 40.00%
Lower Second – a student must achieve an aggregate mark of 50.00%
Upper Second – a student must achieve an aggregate mark of 60.00%
First – a student must achieve an aggregate mark of 70.00%

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 Aggregate Module marks for all modules. For this award, Year One is weighted at 100%. 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 result.

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

N/A

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

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 & 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