

MSc in Healthcare and Design

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 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.

Programme Information

Award	Master of Science (MSc)			
Programme Title	Healthcare and Design			
Programme code	TBC			
Awarding Institution	Imperial College London			
Teaching Institution	Imperial College London and Royal College of Art (RCA)			
Faculty	Medicine			
Department	Surgery & Cancer			
Mode and Period of Study	2 years part-time (24 months)			
Cohort Entry Points	Annually in October			
Relevant QAA Benchmark Statement(s) and/or other external reference points	There are no specific benchmarks in the field of design and innovation related to healthcare.			
Total Credits	ECTS:	90	CATS:	180
FHEQ Level	Level 7 - Master's			
EHEA Level	2 nd cycle			
External Accrator(s)	N/A			
Specification Details				
Student cohorts covered by specification	2016-17 entry			
Responsible Officer	Ms Carly Line			
Date of introduction of programme	10/2016			
Date of programme specification/revision	10/2015			

Description of Programme Contents

The MSc in *Healthcare and Design* is an interdisciplinary programme that draws on the complementary knowledge and expertise of Imperial College London and the Royal College of Art. The programme is offered part-time over two years with 8 individual weeks of intensive teaching (four blocks of two weeks). The programme runs alongside an MRes programme awarded by the Royal College of Art. The Imperial MSc programme has been designed for clinicians and healthcare professionals, while the RCA programme is aimed at design professionals. The majority of modules (six out of eight modules) are shared between the two programmes, with two introductory modules designed specifically for each cohort to introduce the principles of design and healthcare respectively.

The research project (making up 30 ECTS) will be supervised by Imperial but with the option of students have a second supervisor from the RCA. In addition students may choose to undertake this research project in their workplaces, and to manage this we may utilize 'subject experts' in workplaces to provide additional support to students.

The two separate programmes build on the partnership between Imperial and the RCA exemplified by the HELIX Centre, a design studio in St Mary's Hospital bringing designers and clinicians together for the first time to solve healthcare challenges. A key objective of the HELIX Centre is to catalyse more innovative approaches to healthcare service delivery with better design and planning, more efficient use of resources and greater focus on patient need. This programme will equip students from a wide range of professional practice backgrounds with the tools and techniques to instigate and lead innovation in healthcare systems, services and spaces.

The programme is delivered at Imperial's campuses in South Kensington and St Mary's as well as at the RCA campus in South Kensington.

Alignment with College Strategy

Design and innovation are growing areas for the Department of Surgery and Cancer, led primarily by the HELIX Centre but with policy led analysis from Centre for Health Policy and engineering expertise from the Hamlyn Centre.

HELIX also plays a significant role in several large research programmes in the Department such as the NIHR funded Patient Safety Translational Research Centre (PSTRC) and a grant and work stream focused on End of Life research.

A key objective of the HELIX Centre is to catalyse more innovative approaches to healthcare service delivery with better design and planning, more efficient use of resources and greater focus on patient need.

The programme will be nourished by and feed into the joint HELIX/Helen Hamlyn Centre for Design Doctoral (RCA) programme, and will build on growing links with the HELIX Centre's international partners IDEO, Stanford University and Singapore University of Technology and Design.

The programme is also aligned with Faculty of Medicine postgraduate taught programmes strategy to introduce new Master's programmes aligned with research strengths, and to expand flexible Master's provision for healthcare professionals.

Learning Outcomes

Students who have successfully completed the MSc programme should be able to:

- Demonstrate an awareness of the role and value of design in solving healthcare challenges (as well as in broader society).
- Demonstrate an awareness of the UK health system and the systemic challenges it faces to remain sustainable.
- Gain a multi-professional perspective on problem solving and the importance of clinical/design team collaboration
- Develop the skills to develop a business case and business model for an innovation, considering market and financial analysis; and be able to apply different theoretical models of innovation, explaining why some innovations succeed and others fail
- Develop the skills to rapidly research, synthesise and prototype a solution to a healthcare challenge
- Understand behavioural economics and how to apply that to design projects in order to maximize impact. This includes understanding the role of physical products and the environment in shaping people's behaviour
- Gain a multi-professional perspective to the different design disciplines, understanding when each might be applied and how.
- Demonstrate understanding of academic and design research methodologies and how they can be used to shape solutions; as well as test their effectiveness
- Use the new Emerging Language of Leadership as one's natural self-expression regardless of the challenges with which one is confronted.
- Build on presentation and teamwork skills appropriate to Master's level.

Entry Requirements

Academic Requirement

Normally, a 2:1 UK Bachelor's Hons Degree or an overseas qualification of equivalent standard.

Additional Requirements

Students will either have a clinical background or will have other healthcare experience. Students with design experience/qualifications will be directed towards the RCA's MRes programme.

As the programme is part-time, we would expect students to be employed and we will require a letter of permission from their employer.

Applicants who do not meet the academic requirements above but who have substantial relevant industry experience may be admitted following completion of a 'Special Qualifying Exam' (SQE)

Students may be invited to attend a post-application interview

English Requirement

IELTS 7 with no element below 6.5 (or equivalent)

Learning & Teaching Strategy

Scheduled Learning & Teaching Methods	<p>Face-to-face teaching will take place in each module during one week long intensive sessions when students will be exposed to world leading experts and facilities from both Imperial and the RCA, and will also have the opportunity to participate in a range of formative and summative assessment individual and group activities. Face-to-face teaching will include:</p> <ul style="list-style-type: none"> • Interactive lectures • Seminars • Tutorials • Case-based discussions • Practical sessions
E-learning & Blended Learning Methods	<p>Combined with the face-to-face teaching, e-learning and blended learning modules will offer students the opportunity to advance their learning, achieve the specified learning outcomes and demonstrate their progress. E-learning will include:</p> <ul style="list-style-type: none"> • Pre-module activities • Group discussion boards • Other relevant module-related materials
Project and Placement Learning Methods	<ul style="list-style-type: none"> • Research project (students will be encouraged to take this in their workplace (with support from employers) under supervision from their Imperial supervisor)
Assessment Strategy	
Assessment Methods	<ul style="list-style-type: none"> • Individual presentations (following group work) • Written assessments – including critical reflection, literature review, or topical essay. • A research project (10-15,000 word report plus 15 minute oral presentation with questions).
Academic Feedback Policy	
<p>Students will be provided feedback from each of their coursework assessments throughout the programme. This feedback will allow students to self-evaluate their progress throughout the programme. Personal tutors will be able to assist students in this area.</p> <p>Students will receive their indicative grades for their taught module assignments within a month of</p>	

the assignment deadline.

There are a number of case studies and group work throughout the programme, which are not formally assessed, but which will allow students to receive feedback from group leaders and their peers.

The research project will be assessed at different stages with the academic supervisors providing input into methodologies and progress.

Re-sit Policy

Any student who fails an assessment during the taught weeks will be expected to re-submit. This will allow students who fail a component of their module assessment to progress in a timely manner. Students that fail their final project will have an opportunity to resubmit their project at a later date to be agreed with the Programme Director. This will mean that the project will not be considered until the Examination Board the following year. Re-submissions are normally capped at the bare passmark and these students are not normally considered for the award of merit or distinction.

Mitigating Circumstances Policy

The College's Policy on Mitigating Circumstances is available at: www.imperial.ac.uk/registry/exams

Programme Structure

Part-time (Year One)	Pre-session	Term One	Term Two	Term Three	Term Four
Core Modules	0	2	2	0	0
Elective Modules	0	0	0	0	0
Projects	0	0	0	0	0
Part-time (Year Two)	Pre-session	Term One	Term Two	Term Three	Term Four
Core Modules	0	2	2	0	0
Elective Modules	0	0	0	0	0
Projects	0	1			

Assessment Dates & Deadlines

Written Examinations	None
Coursework Assessments	Due 8 weeks after each teaching week
Project Deadline	Mid-September Year 2
Practical Assessments	Throughout the programme during taught weeks

Assessment Structure

Programme Component/Element	ECTS	% Weighting
Year 1 Core Component (4 x core modules – 25% each)	30	33%
Year 2 Core Component (4 x core modules – 25% each)	30	33%
Research Project (consisting of a 10 000 -15 000 word report - 70% and oral presentation - 30%)	30	34%
Total		100%

Marking Scheme

A student must:

- Achieve a mark of at least 40% in each assessment
- Achieve an aggregate pass mark of at least 50% in each module for Year 1 Core Component
 - Students may be condoned in one module with an aggregate mark of 45%
- Achieve an aggregate pass mark of at least 50% in each module for Year 2 Core Component
 - Students may be condoned in one module with an aggregate mark of 45%
- Achieve a mark of 50% in both elements in the Research Project (report and presentation)
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The MSc can be awarded as a pass, merit or distinction classification.

In order to be awarded a result of merit, a candidate must achieve at least 60 per cent in each element; in order to be awarded a result of distinction, a candidate must achieve at least 70 per cent in each element.

- Where appropriate, a Board of Examiners may award a result of merit where a candidate has achieved an aggregate mark of 60 per cent or greater across the programme as a whole AND has obtained a mark of 60 per cent or greater in each element with the exception of one element AND has obtained a mark of 50 per cent or greater in this latter element.
- Where appropriate, a Board of Examiners may award a result of distinction where a candidate has achieved an aggregate mark of 70 per cent or greater across the programme as a whole AND has obtained a mark of 70 per cent or greater in each element with the exception of one element AND has obtained a mark of 60 per cent or greater in this latter element.
- Candidates should only be considered for promotion to pass, merit or distinction if their aggregate mark is within 2.5 per cent of the relevant borderline. Nevertheless, candidates whom the Board deems to have exceptional circumstances may be considered for promotion even if their aggregate mark is more than 2.5 per cent from the borderline. In such cases the necessary extra marks should be credited to bring the candidate's aggregate mark into the higher range.

Examination Regulations

<https://workspace.imperial.ac.uk/registry/Public/Regulations/2014-15/Exam%20Regulations/Regulations%20for%20the%20Examination%20of%20Taught%20Masters%20Degrees.pdf>

General Student Regulations

<https://workspace.imperial.ac.uk/registry/Public/Procedures%20and%20Regulations/Policies%20and%20Procedures/Regulations%20for%20Students.pdf>

Module List												
Code	Title	Core/ Elective	Year	L&T Hours	Ind. Study Hours	Place- ment Hours	Total Hours	% Written Exam	% Course- work	% Practical	FHEQ Level	ECTS
	1. Introduction to principles of design and innovation (RCA)	Core	1	24	163.5	0	187.5	0%	70%	30%	6	7.5
	2. Introduction to design led innovation in healthcare (RCA)	Core	1	24	163.5	0	187.5	0%	70%	30%	6	7.5
	3. A health research toolkit (Imperial)	Core	1	24	163.5	0	187.5	0%	70%	30%	7	7.5
	4. A health business toolkit (Imperial)	Core	1	24	163.5	0	187.5	0%	70%	30%	7	7.5
	5. Innovation (Imperial)	Core	2	24	163.5	0	187.5	0%	100%	0%	7	7.5
	6. Design dash (Imperial)	Core	2	24	163.5	0	187.5	0%	70%	30%	7	7.5
	7. Designing for behaviour change (Imperial)	Core	2	24	163.5	0	187.5	0%	70%	30%	7	7.5
	8. Leadership (Imperial)	Core	2	24	163.5	0	187.5	0%	100%	0%	7	7.5
	9. Project (Imperial led, students may have a second supervisor from the RCA)	Core	2	0	750	0	750	0%	70%	30%	7	30

Supporting Information

The Programme Handbook is available at: TBC

The Module Handbook is available at: TBC

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

The College's entry requirements for postgraduate programmes can be found at:
<http://www3.imperial.ac.uk/entryrequirements/graduate>

The College statement on pastoral care and welfare support is available at: TBC

Details of Departmental arrangements for pastoral care and welfare support is available at:

The College's Quality & Enhancement Framework is available at:
<http://www3.imperial.ac.uk/registry/proceduresandregulations/qualityassurance>

The programme is consistent with the Qualifications Framework of the European Higher Education Area which is available at:
<http://www.ehea.info/Uploads/qualification/QF-EHEA-May2005.pdf>