

Programme Information		
Programme Title	Programme Code	HECoS Code
Surgical Innovation	A3EVO	For Registry Use Only

Award	Length of Study	Mode of Study	Entry Point(s)	Total Credits	
				ECTS	CATS
MSc – A3EVO	24 months	Part-time	Annually in September	90	180
PG Diploma – A3EVD	N/A	Part-time	N/A	60	120
PG Certificate – A3EVC	N/A	Part-time	N/A	30	60

The PG Certificate / PG Diploma are exit awards and are not available for entry. All students must apply to and join the MSc. These awards will be given if, for whatever reason, a student leaves the course before the award of a MSc and has already achieved sufficient credits and passed sufficient modules.

Students may then return later to complete the Masters using the credits they have already obtained.

Ownership			
Awarding Institution	Imperial College London	Faculty	Faculty of Medicine
Teaching Institution	Imperial College London	Department	Surgery and Cancer
Associateship	N/A	Main Location(s) of Study	St Mary's Campus

External Reference	
Relevant QAA Benchmark Statement(s) and/or other external reference points	The programme is consistent with the overarching qualifications of the European Higher Education Framework http://www.ehea.info/Uploads/qualification/QF-
FHEQ Level	Level 7
EHEA Level	2nd Cycle
External Accreditor(s) (if applicable)	
External Accreditor 1:	N/A
Accreditation received:	N/A
Accreditation renewal:	N/A

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 Fernando Bello and Mr Christopher Peters		
Student cohorts covered by specification	2022-23 entry		
Date of introduction of programme	October 15		
Date of programme specification/revision	October 22		

Programme Overview
<p>The aim of the programme is to provide you with a solid academic foundation on both clinical and nonclinical topics relevant to modern surgical trainees, as well as other members of the Multidisciplinary Team and those interested in surgery as a field of study, with especial emphasis on how surgery has radically changed and will continue to advance in the 21st century. The modular nature of the programme allows it to be tailored to your individual needs, being able to choose clinical modules that match your future plans. These clinical specialty streams are in line with the current trend in surgical subspecialisation. The core and compulsory modules will equip you with much needed skills in education, leadership and safety, quality and technological innovation in the current NHS environment. The MSc will also provide you with a good research experience that will serve as a solid foundation for further academic progression.</p> <p>In line with the College Mission Statement, the new programme will promote world class scholarship, education and research in the field of Surgery and allied health professions, fostering interdisciplinary working. The modular structure of the programme aligns well with the Intercollegiate Surgical Curriculum (ICS), offering you the opportunity to gain specific qualifications in topics relevant to you special interest, exposing you to key non-clinical skills, as well as concepts and techniques in surgical research.</p> <p>The MSc programme comprises seven taught modules (4 compulsory modules; 2 specialty stream modules and 1 Research Methods module – each with one taught week, over two years), a mock grant application (which includes a literature review) and a research project.</p>
Learning Outcomes
<p>Upon successful completion of the MSc programme you should be able to:</p> <ul style="list-style-type: none"> • Critically appraise and evaluate the scientific basis of surgery and the principles of modern surgical practice to develop evidence-based practice in surgery and in particular the chosen clinical field (upper GI, colorectal, orthopaedic, vascular, trauma, ENT or transplant surgery) • Analyse the issues involved in the application of technology to surgery • Design complex quality improvement interventions and evaluate the challenges and barriers to implementing theses • Examine and critique the nature and use in practice, of education theory and educational research in surgical training, UG/PG medical/surgical education, and how this is similar or different from other disciplines • Identify and evaluate the principles and workings of current interventional technology and imaging routinely used in surgery and interventional medicine • Define and deliver multidisciplinary training, including in collaboration with other clinical and non-clinical disciplines. • Critically appraise and reflect on clinical, technological and socioeconomical factors affecting surgical practice • Identify and apply appropriate academic writing, analytical and assessment tools to create and apply quality assurance standards to clinical surgery • Create and successfully pursue an original research plan utilising research methodologies fit for purpose, underpinned by relevant theories / evidence and good practice including exercising choice in a range of qualitative and quantitative research techniques.

The Imperial Graduate Attributes are a set of core competencies which we expect you 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	<p>A degree in medicine or at least an Upper 2:1 UK Bachelor's Degree with Honours in a health-related science (or a comparable qualification recognised by the College). You should also have at least one year's clinical experience, preferably with some surgical training, or at least one year's experience in a relevant area related to surgery.</p> <p>For further information on entry requirements, please go to: www.imperial.ac.uk/study/pg/apply/requirements/pgacademic</p>
Non-academic Requirements	None
English Language Requirement	<p>Standard requirement (PG)</p> <p>IELTS 6.5 with a minimum of 6.0 in each element or equivalent.</p>
Admissions Test/Interview	Home / EU / international applicants may be invited to attend an interview

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

<http://www.imperial.ac.uk/students/academic-support/graduate-attributes/>

Learning & Teaching Approach

Learning and Teaching Delivery Methods

The programme will use a blended approach that will include a variety of delivery methods as listed below. You will encounter a few longer lectures and many 'mini-lectures'. You will also have outside speakers, some very eminent in their field, giving 'star lectures'. We use this latter mode to convey large ideas, important information, personal enthusiasm and expertise, to give an overview, to summarise main points, to provoke debate and so on. Many such sessions will be interactive, needing your participation; in others, the tutor may wish to be more formal and complete their piece before inviting questions. For all sessions, tutors/speakers will provide some form of notes, electronically or in hard copy. We will use a web-based Virtual Learning Environment (VLE). A VLE is a password protected online system that has a number of tools to support learning and teaching. It is a central part of teaching, learning, studying and communicating on the programme.

Scheduled Teaching and Learning

- Interactive lectures.
- Face-to-face teaching.
- Case based discussions.
- Panels.
- Expert debates.
- Practical sessions.

E-learning & Blended Learning

- Pre-module activities.
- Group discussion boards.

Project and Placement Learning

- Mock grant application including a literature review.
- Independent research project.

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 2,250 hours, with 1,250 hours corresponding to year 1 and 1,000 hours in year 2.

In year 1 students experience 183.25 hours of learning and teaching and are expected to complete 1,066.75 hours of independent study. This equates to 14.66% learning and teaching and 85.34% independent study across the year. The 2nd year of the programme is comprised of the Mock Funding Application and Research Project, which are based entirely on independent study – 1,000 hours, in total.

Assessment Strategy

Assessment Methods

- e-learning MCQs/MEQs
- Preparation of teaching video
- Structured debates
- Group presentations
- Academic oral presentations
- Mock Clinical MDTs
- Written / practical exams.
- Critical reflection.
- Evidence-based mini project
- Topical essay.
- e-teaching case.
- Mock grant application including a literature review.
- Research dissertation.

	Year 1	Year 2
Coursework	70.5%	100%
Practical	28%	N/A
Exam	1.5%	N/A

Academic Feedback Policy

Coursework feedback is provided by a feedback form attached to items of coursework aligned with College policy and grade boundaries. Feedback is also provided via Blackboard on automatically assessed pieces of coursework and on MCQ MEQs.

The course directors and personal tutor offer one to one meeting termly to give feedback on assessment performance and can be approached by their tutees at any point in the year for further guidance. The Course directors and Programme Administrator inform individual staff via email when coursework is due back at the appropriate time. The course directors routinely monitor the quality and quantity of feedback provided on marked coursework. In some instances, generic class feedback may be returned to all students via email or a Blackboard announcement once coursework is marked.

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
None	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					
Year 1 – FHEQ Level 7 Students study all core and compulsory modules. Students take both elective modules from either group A, B, C, D, E, F, G or H					
Code	Module Title	Core/ Elective/ Compulsory	Group	Term / Year	Credits
SURG70057	Principles of Surgery	Compulsory		1 / Y1	7.5
SURG70058	Interventional Technology and Imaging	Compulsory		1 / Y1	7.5
SURG70059	Improving Safety, Implementing Change	Compulsory		2 / Y1	7.5
SURG70060	Surgical Education	Compulsory		2 / Y1	7.5
SURG70061	Research Methods	Compulsory		3 / Y1	5.0
SURG70062	Colorectal Surgery 1 – Emergency Survey and Colorectal Cancer	Elective	A	3 / Y1	7.5
SURG70063	Colorectal Surgery 2 – Inflammatory Bowel Disease, Perianal Disease and Functional Bowel Disorders	Elective	A	4 / Y1	7.5
SURG70064	Orthopaedic Surgery 1 – Planned Surgery	Elective	B	3 / Y1	7.5
SURG70065	Orthopaedic Surgery 2 – Trauma and Fracture Care	Elective	B	4 / Y1	7.5
SURG70066	Upper GI Surgery 1 – Cancerous and Benign Conditions of Oesophagus and Stomach	Elective	C	3 / Y1	7.5
SURG70067	Upper GI Surgery 2 – Bariatric Surgery and Medicine	Elective	C	4 / Y1	7.5
SURG70068	Vascular Surgery 1 – Key Principles and Aortic Surgery	Elective	D	3 / Y1	7.5
SURG70069	Vascular Surgery 2 – Peripheral Arterial, Carotid and Venous Surgery	Elective	D	4 / Y1	7.5
SURG70070	Trauma Surgery 1 - Casualty Reception and Management	Elective	E	3 / Y1	7.5

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.

SURG7007 1	Trauma Surgery 2 - Operative Management of Injuries	Elective	E	4 / Y1	7.5
SURG7007 2	Transplant 1 - Principles of Transplantation Surgery	Elective	F	3 / Y1	7.5
SURG7007 3	Transplant 2 - Transplant Surgery Techniques and Complications	Elective	F	4 / Y1	7.5
SURG7007 4	ENT 1 - Basic Science, Education and Training, Outcomes, Technology	Elective	G	3 / Y1	7.5
SURG7007 5	ENT 2 - Technology II and Clinical Innovation	Elective	G	4 / Y1	7.5
Credit Total					50
Year 2 - FHEQ Level 7					
Students study all core modules.					
Code	Module Title	Core/ Elective/ Compulsory	Group	Term and Year	Credits
SURG7007 6	Mock grant application (including literature review)	Core		3 and 4 Y1 / 1 Y2	15
SURG7007 7	Research Project	Core		2, 3 and 4 Y2	25
Credit Total					40

Progression and Classification

The PG Certificate/PG Diploma are exit awards and are not available for entry. You must apply to and join the MSc but may exit with a:

Award of a Postgraduate Certificate (PG Cert)

To qualify for the award of a postgraduate certificate a student must have a minimum of 30 credits at Level 7 (this may include a maximum of 10 credits from Level 6 where this is approved as part of the award).

Award of a Postgraduate Diploma (PG Dip)

To qualify for the award of a postgraduate diploma a student must have passed modules to the value of no fewer than 60 credits at Level 7 (this may include a maximum of 15 credits from Level 6 where this is approved as part of the award).

1. and no more than 10 credits as a Compensated Pass;

Award of a Postgraduate Degree

To qualify for the award of a postgraduate degree a student must have:

1. accumulated credit to the value of no fewer than 90 credits at level 7 or above of which no more than 15 credits may be from credit level 6;
2. and no more than 15 credits as a Compensated Pass;
3. met any specific requirements for an award as outlined in the approved programme specification for that award.

Classification of Postgraduate Taught Awards

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

1. Distinction: The student has achieved an overall weighted average of 70.00% or above across the programme.
2. Merit: The student has achieved an overall weighted average of above 60.00% but less than 70.00%.
3. Pass: The student has achieved an overall weighted average of 50.00% but less than 60.00%.
 - a. For a Masters, students must normally achieve a distinction (70.00%) mark in the dissertation or designated final major project (as designated in the programme specification) in order to be awarded a distinction.
 - b. For a Masters, students must normally achieve a minimum of a merit (60.00%) mark in the dissertation or designated final major project (as designated in the programme specification) in order to be awarded a merit
 - c. Modules taken at level 6 as part of the programme specification for a named postgraduate award will contribute to the determination of pass, merit or distinction for any taught postgraduate award and are included in the calculation of the overall weighted average.

The Regulations for Taught Programmes of Study can be found here:

www.imperial.ac.uk/about/governance/academic-governance/regulations/

Programme Specific Regulations

N/A

Supporting Information

The Programme Handbook is available at: <https://www.imperial.ac.uk/study/pg/medicine/surgical-innovation/>

The Module Handbook is available at: <https://www.imperial.ac.uk/study/pg/medicine/surgical-innovation/>

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
Correct the entry point from October to September as approved at programmes committee in June 2016	Programmes Committee	30 Jun 2016	PC.2015.62
Correct the period of study for the PG Cert from 8 to 9 (as a result of above)	Programmes Committee	30 Jun 2016	PC.2015.62
Clarify the entry points and additional information under the programme codes section	N/A	03 Feb 2017	N/A
Clarification of cohort entry points	N/A	03 Feb 2017	N/A
Clarification of the elements in the module weightings table	N/A	03 Feb 2017	N/A
Addition of progression rules section	N/A	03 Feb 2017	N/A
Addition of the Transplant stream	Programmes Committee	09 May 2017	PC.2016.12 5
Addition of the ENT stream	Programmes Committee	05 Sep 2017	PC.2017.15 8
Curriculum Review	Programmes Committee	29 Mar 2022	PC.2022.88