

| Programme Information | | |
|--------------------------|----------------|-----------------------|
| Programme Title | Programme Code | HECoS Code |
| Aeronautical Engineering | H401 | For Registry Use Only |

| Award | Length of Study | Mode of Study | Entry Point(s) | Total Credits | |
|-------------------------|-----------------|---------------|---------------------|---------------|------|
| | | | | ECTS | CATS |
| MEng | 4 Years | Full-time | Annually in October | 240 | 480 |
| BEng (Ordinary)* - H402 | N/A | N/A | N/A | 150 | 300 |
| DipHE* - H401D | N/A | N/A | N/A | 120 | 240 |
| CertHE* - H401C | N/A | N/A | N/A | 60 | 120 |

* The CertHE, DipHE and BEng are exit awards only and not accredited by any professional body. The BEng exit award is an Ordinary degree. These exit awards may be offered to students, in exceptional circumstances, at the discretion of the Board of Examiners.

| Ownership | | | |
|----------------------|-------------------------|---------------------------|-------------------------|
| Awarding Institution | Imperial College London | Faculty | Faculty of Engineering |
| Teaching Institution | Imperial College London | Department | Aeronautics |
| Associateship | City & Guilds Institute | Main Location(s) of Study | South Kensington Campus |

| External Reference | |
|--|-----------------------------|
| Relevant QAA Benchmark Statement(s) and/or other external reference points | Engineering |
| FHEQ Level | 7 |
| EHEA Level | 2nd Cycle |

| External Accreditor(s) (if applicable) | | | |
|--|-------------------------------------|------------------------|------|
| External Accreditor 1: | Royal Aeronautical Society | | |
| Accreditation received: | 1982 | Accreditation renewal: | 2025 |
| External Accreditor 2: | Institution of Mechanical Engineers | | |
| Accreditation received: | 1987 | Accreditation renewal: | 2025 |

| Collaborative Provision | | | |
|--|--------------------|---|-----------------------|
| Collaborative partner | Collaboration type | Agreement effective date | Agreement expiry date |
| N/A | N/A | N/A | N/A |
| Specification Details | | | |
| Programme Lead | | Dr Errikos Levis, Director of Undergraduate Studies | |
| Student cohorts covered by specification | | 2024-25 entry | |
| Date of introduction of programme | | October 19 | |
| Date of programme specification/revision | | March 2023 | |

| Programme Overview |
|---|
| <p>The Department of Aeronautics aims to provide a programme that trains and prepares the future leaders in aerospace and related engineering disciplines. This is achieved through an integrated programme of study wherein you will engage with the constituent engineering disciplines in aerospace from the first week of the first year. We strongly believe that this is the most appropriate approach to train engineers of the highest quality in the 21st century, and as such the degree programme does not include a general engineering foundation.</p> <p>As a graduate of our programme, you will not only be able to demonstrate technical and professional leadership skills in your field, but will also be adaptable and therefore well-suited to careers in both the industrial and service sectors. Additionally, you will be able to both demonstrate and apply your knowledge and skills to problems relevant to modern engineering practice in both general terms and in discipline-specific terms.</p> <p>The key programme aims are:</p> <ul style="list-style-type: none"> • To provide you with a solid technical basis in all the key areas of the modern discipline-specific Engineering profession through delivery of a coherent, coordinated and balanced degree programme, integrating core engineering science with its application, both experimentally and computationally. • To provide you with an appreciation of the conceptual and creative aspects of design; to develop your ability to incorporate concepts into the design of new products or processes and deal with an inherent level of uncertainty. • To inculcate an understanding of professional behaviour, including your ability to communicate ideas and findings, plan and organise your work and work effectively within diverse teams. <p>Across the first three years of the degree you will develop a strong grounding in the three disciplinary pillars of aerospace engineering; aerodynamics, lightweight structures and structural mechanics, and flight mechanics and control. Each year, the relevant modules will build on your previous knowledge and skills, introducing increasingly advanced content, concentrating on both the underlying theory and its application. Applications in each disciplinary area will range from performing theoretical back-of-the-envelope calculations, to numerical computations (using commercial Computational Fluid Dynamics or Finite Element packages) and conducting experiments using the Department’s wind tunnels, mechanical testing labs, and full-motion flight simulator. In addition to Departmental facilities, in the second year, you will have the opportunity to attend the National Flying Laboratory flight-testing course.</p> <p>In each of the first three years of your studies, the interplay between disciplinary areas will be explored through multidisciplinary design-build-test exercises, where you will work within a team of your peers to devise creative, optimised solutions that meet customer specifications. As you progress through the programme, these tasks will become increasingly complex and open-ended, culminating in the third year Group Design Projects, where you will work as a member of a large design team, mirroring an industrial design office environment, to produce a complete vehicle or system design. In recent projects students have designed hybrid-electric regional airliners, reusable space payload delivery systems, electric racing vehicles or a submersible unmanned aerial vehicle.</p> |

In support of the above, in the first two years of your studies you will further follow classes to develop your competence in mathematics, computer programming and the use of computers for the implementation of numerical methods.

In the final two years of your studies you will be able to tailor your programme content to reflect your individual areas of interest within aerospace and related disciplines by selecting from wide collection of optional modules alongside some core modules. The option to choose from a limited list of electives offered by other Engineering Departments is also available. In the final year of your studies you will complete an individual research project in your chosen area of research, either working with one of the Department's specialist researchers and academics and their research group, or by undertaking an external project working with an internationally leading engineering company, typically at their site. External projects are assessed jointly by your industrial supervisor and academics from within the Department.

In addition to external projects, the department maintains very close contact with industry through a joint academic-industry advisory board, comprising of senior members from a wide variety of UK engineering companies that are influential in the aerospace sector and that constitute engineering career destinations for the student cohort (Airbus, ARA, BMT Fluid Mechanics Ltd, BAE Systems, QinetiQ, Rolls-Royce, Mercedes AMG F1, Jaguar Land Rover). You will have the opportunity to interact with industry through a number of talks and seminars, specific lectures, and projects. For example, visiting industrial speakers are invited each year to present either short lunch-time talks to all undergraduates on their experiences, or to contribute to one of the modules on offer, enriching the syllabus with their industrial perspective and experiences.

Learning Outcomes

By the end of the four-year MEng programme you will have

1. a comprehensive knowledge and understanding of the scientific, mathematical, statistical, and computational principles, methods, and models relevant to the analysis of aeronautical engineering problems;
2. a comprehensive knowledge and understanding of the historical, current and developing (future) technologies, materials, equipment and processes in, and relevant to, the field of aeronautical engineering;

and will be able to

3. recognise the commercial, economic and social context of aeronautical engineering processes, the need for professional and ethical conduct in engineering management techniques, including project and change management, and the requirement to promote sustainable development;
4. apply and integrate fundamental knowledge to investigate new and emerging technologies in aeronautics and effectively communicate your findings;
5. identify, apply and integrate the knowledge necessary, in order to propose creative solutions to complex, interdisciplinary, open-ended problems in aerospace and related disciplines, effectively working with uncertainty;
6. identify and critically analyse aeronautical engineering processes, systems and components, using appropriate analytical, quantitative and computational methods, and modelling techniques;
7. plan and carry out experimental work, identifying the most appropriate approach and equipment, utilising relevant practical and laboratory skills, considering health, safety and risks.
8. develop a comprehensive knowledge and understanding of design processes, as well as their effective planning and management, in order to generate innovative designs;
9. work effectively within diverse, multicultural, interdisciplinary teams;
10. identify and evaluate business, customer and user needs, as well as key design constraints including legal, social, environmental, ethical and commercial requirements in an engineering context;

11. plan, monitor and improve upon a personal programme of work, including the ability to undertake effective self-learning and evaluate and improve personal performance and self-efficacy as the foundation for lifelong learning and continuous personal development.

Prior to the completion of the complete programme of study, these learning outcomes will be achieved only partially, up to a level appropriate for the relevant exit degree level.

The Imperial Graduate Attributes are a set of core competencies which we expect students to achieve through completion of any Imperial degree programme. The Graduate Attributes are available at: www.imperial.ac.uk/about/education/our-graduates/

Entry Requirements

| | |
|------------------------------|--|
| Academic Requirement | <p><u>A-Level</u></p> <p>A minimum A*AAA or A*A*A overall or equivalent, with A* in Mathematics A*/A in Physics Further Mathematics is strongly encouraged (or a comparable qualification recognised by the university).</p> <p><u>International Baccalaureate (IB)</u></p> <p>A minimum of 40 points overall, with 7 in Mathematics at higher level 7 in Physics at higher level (or a comparable qualification recognised by the university).</p> <p>For further information on entry requirements, please go to www.imperial.ac.uk/study/apply/undergraduate/entry-requirements/</p> |
| Non-academic Requirements | None |
| English Language Requirement | <p><u>Standard requirement</u> Please check for other <u>Accepted English Qualifications</u></p> |
| Admissions Test/Interview | <p>Shortlisted applicants, resident in the UK, will be invited to attend an interview day at the Department. The interview day will include a tour of the Department, a 1-on-1 interview with one of the Department's academics and a mathematics aptitude test.</p> <p>Shortlisted applicants from the EU and Overseas will be provided an open ended technical challenge and may be asked to discuss it further with a member of staff during an online interview.</p> |

The programme's competency standards documents can be found at: www.imperial.ac.uk/media/imperial-college/faculty-of-engineering/aeronautics/Competency-Standards.pdf

Learning & Teaching Approach

Learning and Teaching Delivery Methods

You will be introduced to core knowledge primarily through large class sessions, ranging in format from traditional lectures to more active learning sessions, where you are required to self-study assigned materials ahead of the session and build on that knowledge in subsequent reinforcement and guided problem-solving sessions. The department will provide you with an iPad electronic note-taking and e-reading device, which will further be used to support your learning through digital tools such as in-class Q&A sessions, visualisations and interactive lecture notes.

You will be expected to spend significant further time (approximately 3-4 hours for every timetabled contact hour) working independently and with peers, reviewing lecture notes, lecture video recordings, books, journal papers, e-learning materials and solving problem sets.

Each of the first three years of study features several laboratory exercises and design projects, carried out in small groups of 3-6 students. As you progress to higher years these exercises will become increasingly complex and less guided, moving from passive demonstrations to active learning exercises where you will explore possible options, consider constraints and develop your own knowledge, supported by the teaching staff and graduate teaching assistants. This culminates in the third year Group Design Project exercise, where you will work in a team of approximately 20 students to complete a novel clean-sheet vehicle design to meet client specifications, and the fourth year where you will work under the guidance and supervision of a member of the teaching staff to complete your individual research project.

Professional skills, such as technical report writing and presenting, are cultivated in the first years of study through small group coaching and further developed in subsequent years through both individual and team-based coursework assignments. Drafting of engineering drawings using computational tools and computer programming are further taught in an active manner, through guided large class tutorial sessions, supported by the teaching staff and graduate teaching assistants.

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 1,500 hours per year for an average student.

The Aeronautics department expects you to allocate approximately 4 hours in self-study for every hour spent in lectures for a typical lecture-based module.

- In the first two years of your studies (Level 4 & 5) you will spend 15% of your time in large class lectures and workshops (215 hours) with a further 7% of your time in small-class tutorials or lab practicals (105 hours).
- In the third year (Level 6), 15% of your total time will be spent in lectures, tutorials and lab practicals and 45% of your time in self-study supporting these modules. A further 40% of your time will be spent on team-based project work, involving self-study, project meetings, and collaborative work.
- In the fourth year (Level 7) the pattern of work is greatly dependent on your selected elective modules, however on average you can expect to spend about 125 hours in lectures and tutorials with a further 1350 hours, over three terms, being devoted to self-directed research work for your Individual Project.

Assessment Strategy

Assessment Methods

The Aeronautics Department aims to employ assessment both to test your achievement of module objectives, referred to as summative assessment, and as a method of enhancing learning, developing skills and applying knowledge through assessment, referred to as formative assessment.

A variety of formative and summative assessment methods are utilised in this programme. Written examinations are utilised for modules where theoretical knowledge and its application within a disciplinary setting is introduced. In addition to a final summative assessment, such modules will typically offer opportunities for you and your instructors to assess your level of understanding and progress by completing in-class or online formative progress tests.

Laboratory and design exercises are assessed through a variety of methods such as coursework in the form of:

- Progress reports
- Laboratory reports
- Individual and group project reports
- Engineering drawings
- Peer-assessment
- Computer programming submissions
- Research theses

and practicals such as:

- Oral presentations
- Poster presentations
- Oral examinations
- Laboratory skills assessments.

The breakdown of summative assessment for each year of the programme is indicated below.

| | Year 1 | Year 2 | Year 3* | Year 4* |
|------------|--------|--------|---------|---------|
| Coursework | 20% | 28% | 37% | 35% |
| Practical | 9% | 8% | 21% | 23% |
| Exams | 71% | 64% | 42% | 42% |

*Note that figures for years 3 and 4 are approximate due to the varying assessment of elective modules

Academic Feedback Policy

Feedback is an essential part of learning and the Department gives high priority to the timeliness and quality of feedback offered to you on all modules. The primary purpose of feedback is to assist learning and the development of skills, by highlighting strengths and weaknesses on one hand, and by identifying actions for improvement on the other. It is not meant to exclusively provide justification for assessment results. It is important to recognise that: 1) feedback comes in various forms and 2) feedback requires your active engagement.

Feedback will be provided for all assessments carried out as part of this programme. For examinations, a written examiner's report, commenting and providing quantitative information on the performance of the entire cohort, detailing common mistakes, and highlighting alternate approaches to the published solution, will be made available. For minor pieces of coursework, written feedback will be provided within two working weeks of submission. For major, final, pieces of coursework, feedback will be provided ahead of the next opportunity where said feedback will be of use to you.

All modules will further aim to provide you with the opportunity to receive feedback ahead of any major summative assessment. Such feedback may be provided in the form of in-class progress tests, online self-assessment exercises, tutorial sheets, etc. Where possible, as in the case of in-class tutorial sessions, oral examinations and poster sessions, oral feedback will be provided immediately by tutors or assessors.

You should keep in mind that not all feedback is structured, and important feedback may be obtained from self-reflection on your progress to date, from peers when studying or working together in a team, in dialogue with a lecturer or teacher in or outside of a tutorial, class or laboratory, or by email.

Imperial'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

Imperial's Policy on Re-sits is available at: www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/

Mitigating Circumstances Policy

Imperial's Policy on Mitigating Circumstances is available at: www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/

| Additional Programme Costs | | |
|---|--------------------|------------------|
| Description | Mandatory/Optional | Approximate cost |
| National Flying Laboratory flight-testing course | Optional | £50 |
| Insurance cover for provided tablet & accessories | Optional | £40 per annum |

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 Structure¹ | | | | | |
|---|--|----------------------------------|-------|-------------------|---------|
| Year 1 – FHEQ Level 4 You will study all core modules. | | | | | |
| Code | Module Title | Core/ Compulsory/ Elective | Group | Term | Credits |
| AERO40001 | Aerodynamics 1 | Core | N/A | Autumn | 7.5 |
| AERO40008 | Structures 1 | Core | N/A | Spring | 7.5 |
| AERO40006 | Mathematics 1 | Core | N/A | Autumn- Spring | 7.5 |
| AERO40007 | Mechanics | Core | N/A | Autumn | 7.5 |
| AERO40009 | Thermodynamics and Heat Transfer | Core | N/A | Spring | 5 |
| AERO40005 | Materials 1 | Core | N/A | Autumn | 5 |
| AERO40002 | Introduction to Aerospace | Core | N/A | Spring | 5 |
| AERO40003 | Computing and Numerical Methods 1 | Core | N/A | Autumn- Spring | 5 |
| AERO40004 | Engineering Practice 1 | Core | N/A | Autumn- Summer | 10 |
| Credit Total | | | | | 60 |
| Year 2 - FHEQ Level 5 You will study all core modules. | | | | | |
| Code | Module Title | Core/ Compulsory/ Elective | Group | Term | Credits |
| AERO50001 | Aerodynamics 2 | Core | N/A | Autumn | 7.5 |
| AERO50008 | Structures 2 | Core | N/A | Autumn | 7.5 |
| AERO50006 | Mathematics 2 | Core | N/A | Autumn- Spring | 7.5 |
| AERO50007 | Mechatronics | Core | N/A | Spring | 5 |
| AERO50009 | Propulsion and Turbomachinery | Core | N/A | Spring | 5 |
| AERO50005 | Materials 2 | Core | N/A | Autumn | 5 |
| AERO50002 | Flight Dynamics and Control | Core | N/A | Spring | 5 |
| AERO50003 | Computing and Numerical Methods 2 | Core | N/A | Autumn | 5 |
| AERO50004 | Engineering Practice 2 – Technical | Core | N/A | Summer | 7.5 |
| AERO50010 | Engineering Practice 2 – Project Development | Core | N/A | Spring | 5 |
| Credit Total | | | | | 60 |

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.

Year 3 - FHEQ Level 6

You will study all core modules. You must choose two optional modules and one from the list of available I-Explore modules. Elective choices/availability will be dependent on timetable constraints. Modules selected in Year 3, may not be chosen in Year 4. Please note that all elective modules are FHEQ Level 7

| Code | Module Title | Core/ Compulsory/ Elective | Group | Term | Credits |
|-----------|--|----------------------------------|-------|---------------|---------|
| AERO60001 | Aerodynamics 3 | Core | N/A | Autumn | 7.5 |
| AERO60008 | Structures 3 | Core | N/A | Autumn | 7.5 |
| AERO60007 | Control Systems | Core | N/A | Spring | 5 |
| AERO60002 | Aerospace Vehicle Design | Core | N/A | Autumn-Spring | 10 |
| AERO60004 | Group Design Project | Core | N/A | Spring-Summer | 15 |
| AERO70010 | Finite Elements | Elective | | Autumn | 5 |
| AERO70016 | Orbital Mechanics | Elective | | Spring | 5 |
| AERO70020 | Advanced Fluid Mechanics and Fluid Structure Interaction | Elective | | Autumn | 5 |
| AERO70015 | Mathematics 3 | Elective | | Spring | 5 |
| AERO70013 | Turbulence and Turbulence Modelling | Elective | | Autumn | 5 |
| AERO70008 | Computational Fluid Dynamics | Elective | | Autumn | 5 |
| AERO70009 | Computational Mechanics in Engineering | Elective | | Spring | 5 |
| AERO70003 | Advanced Propulsion | Elective | | Spring | 5 |
| AERO70012 | Innovation Management | Elective | | Autumn | 5 |
| AERO70002 | Advanced Manufacturing | Elective | | Autumn | 5 |
| AERO70011 | High Performance Computing | Elective | | Spring | 5 |
| AERO70019 | Spacecraft Systems | Elective | | Spring | 5 |
| AERO70018 | Spacecraft Structures | Elective | | Spring | 5 |
| ELEC70098 | Optimisation (IDX) | Elective | | Autumn | 5 |
| DESE60008 | Design for Additive Manufacturing (IDX) | Elective | | Spring | 5 |
| AERO70032 | Flow Instability and Transition | Elective | | Spring | 5 |
| AERO70026 | Fundamentals of Scientific Machine Learning | Elective | | Autumn | 5 |
| AERO70014 | Lightweight Structures | Elective | | Autumn | 5 |
| AERO70004 | Aeroelasticity | Elective | | Autumn | 5 |
| AERO70005 | Aerothermodynamics of Launchers and Re-Entry Vehicles | Elective | | Autumn | 5 |
| AERO70024 | Applications of Computational Fluid Dynamics | Elective | | Spring | 5 |
| AERO70037 | Spacecraft Propulsion (not running in 2024-25) | Elective | | Autumn | 5 |
| AERO70035 | Structural Integrity and Health Monitoring | Elective | | Spring | 5 |

| | | | | | |
|-----------|---------------------------------|------------|-----|-------------------|--------------|
| AERO70038 | Introduction to Vertical Flight | Elective | | Spring | 5 |
| | I-Explore (Level 6) | Compulsory | N/A | Autumn, Spring | 5 - 7.5 |
| | | | | Credit Total | 60 - 62.5 |

Year 4 - FHEQ Level 7

You will study all core modules. You must choose five optional modules. Elective choices/availability will be dependent on timetable constraints. Modules selected in Year 3, may not be chosen in Year 4.

| Code | Module Title | Core/ Compulsory/ Elective | Group | Term | Credits |
|-----------|--|----------------------------------|-------|-------------------|---------|
| AERO70001 | Individual Project | Core | N/A | Autumn-Summer | 35 |
| AERO70010 | Finite Elements | Elective | | Autumn | 5 |
| AERO70016 | Orbital Mechanics | Elective | | Spring | 5 |
| AERO70020 | Advanced Fluid Mechanics and Fluid-Structure Interaction | Elective | | Autumn | 5 |
| AERO70015 | Mathematics 3 | Elective | | Spring | 5 |
| AERO70013 | Turbulence and Turbulence Modelling | Elective | | Autumn | 5 |
| AERO70008 | Computational Fluid Dynamics | Elective | | Autumn | 5 |
| AERO70009 | Computational Mechanics | Elective | | Spring | 5 |
| AERO70003 | Advanced Propulsion | Elective | | Spring | 5 |
| AERO70012 | Innovation Management | Elective | | Autumn | 5 |
| AERO70002 | Advanced Manufacturing | Elective | | Autumn | 5 |
| AERO70011 | High Performance Computing | Elective | | Spring | 5 |
| AERO70019 | Spacecraft Systems | Elective | | Spring | 5 |
| AERO70018 | Spacecraft Structures | Elective | | Spring | 5 |
| AERO70006 | Applications of Fluid Dynamics | Elective | | Autumn | 5 |
| AERO70024 | Applications of Computational Fluid Dynamics | Elective | | Spring | 5 |
| AERO70005 | Aerothermodynamics of Launchers and Re-Entry Vehicles | Elective | | Autumn | 5 |
| AERO70014 | Lightweight Structures | Elective | | Autumn | 5 |
| AERO70004 | Aeroelasticity | Elective | | Autumn | 5 |
| ELEC70098 | Optimisation (IDX) | Elective | | Autumn | 5 |
| DESE60008 | Design for Additive Manufacturing (IDX) | Elective | | Spring | 5 |
| AERO70032 | Flow Instability and Transition | Elective | | Spring | 5 |
| AERO70026 | Fundamentals of Scientific Machine Learning | Elective | | Autumn | 5 |
| AERO70037 | Spacecraft Propulsion (not running in 2024-25) | Elective | | Autumn | 5 |
| AERO70035 | Structural Integrity and Health Monitoring | Elective | | Spring | 5 |
| AERO70038 | Introduction to Vertical Flight | Elective | | Spring | 5 |
| | BPES / Horizons (level 6 or 7) | Elective | | Autumn/ Spring | 5 |

| | |
|--|-----------------|
| | Credit Total 60 |
|--|-----------------|

Progression and Classification

Progression

In order to progress to the next level of study, you must have passed all modules (equivalent to 60 ECTS) in the current level of study at first attempt, at resit or by a compensated pass.

The overall weighted average for each year must be 40.00%, including where a module(s) has been compensated, in order for you to progress to the next year of the programme.

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 this award, Year One is weighted at 7.50%, Year Two at 20.00%, and Years Three and Four at 36.25% each.

The university 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 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

As an accredited degree, students on this programme are subject to the standards set by the Engineering Council in relation to compensation: a maximum of 15 ECTS credits can be compensated across the entire programme

Students who have failed to progress to the following year due to failing a module at first attempt, in the absence of any mitigating circumstances, will typically be:

- offered a re-assessment opportunity of a failed module if they have passed more than 45 ECTS credits in that year of the programme;
- required to re-sit the year if having failed more than 15 ECTS but less than 30 ECTS credits in that year of the programme;
- asked to withdraw from the programme if having failed more than 30 ECTS in that year of the programme

Supporting Information

The Programme Handbook is available from the department.

The Module Handbook is available from the department.

Imperial's entry requirements for postgraduate programmes can be found at:

www.imperial.ac.uk/study/apply/postgraduate-taught/entry-requirements/accepted-qualifications/

Imperial's Quality & Enhancement Framework is available at:

www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance

Imperial's Academic and Examination Regulations can be found at:

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

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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 you may reasonably be expected to achieve and demonstrate if you take 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.