

PROGRAMME SPECIFICATION

KEY FACTS

Programme name	Engineering Systems Engineering Systems with Placement
Award	BEng (Hons)
School	Mathematics, Computer Science and Engineering
Department or equivalent	Engineering
UCAS Code	HH31 HH32
Programme code	US??? US???
Type of study	Full Time
Total UK credits	360
Total ECTS	180

PROGRAMME SUMMARY

A systems-based approach is integral to the design and implementation of successful new systems in engineering, to support the development of tomorrow's engineering products – this will be one of the greatest challenges for technological progress in the next few decades. The complexity of emerging applications necessitates creating holistic and innovative solutions, founded on a multidisciplinary systems approach, based on the concept of system engineering. Such an interdisciplinary approach to complex systems and the analysis of interactions which will involve information and processes, as well as people, products, and services, to enable the successful realization and better use and understanding of the real-world, large or complex systems seen in engineered systems today.

During the degree, engineering knowledge is built-up and nurtured, with specific objectives associated with each component Programme Stages. Development of design skills and teamwork are at the heart of the City, University London engineering degrees throughout the programme.

Programme Stage 1 is primarily common across all of the engineering degrees. This introductory year is intended to give you a thorough grounding in the fundamental and applied science and mathematics appropriate for an engineer, as well as developing personal skills such as time and quality management. During Programme Stage 1, you will have the opportunity to undertake preliminary engineering designs through group activity. Common to most stage 1 and 2 and across all Engineering programmes, you will be offered a core module termed as the Engineering in Society. During stage 1 this module will introduce the engineering discipline with particular emphasis on some key topics such as sustainability, the environment, healthcare, space, autonomous vehicles, etc. It will also incorporate personal tutoring and a series of seminars to improve your soft skills (presentations, CV building employability skills, etc.). During the second year, the Engineering in Society module will focus on an introduction to engineering management and the circular economy. It will also incorporate training in employability and promote multi-skills engineering. This module during the first two stages will be assessed by both the lecturers and the personal tutors. Particular emphasis will be given to an interdisciplinary approach to engineering, sustainability, societal and moral impact of

engineering. Further help in building your curriculum and enhancing your employability potential will also be provided. At the end of Programme Stage 1 (assuming that you have met the academic requirements described below) you will have the opportunity to decide whether to remain on the BEng (Hons) Engineering Systems degree or switch to one of 6 other engineering BEng (Hons) degrees. This flexibility in choice at the end of Programme Stage 1 enables you to follow the discipline that best matches your strengths and most attracts you.

In Programme Stage 2 you will start to specialise and learn to apply engineering analysis to simple but representative components of engineering systems. You will further study engineering systems design and given an engineering challenge, approaching a professional level exercise. You will also advance your knowledge of Signals and Communications, Electronics (including Electromagnetics), Mechatronics and Systems, a Data Analysis programme for Engineers and Sensor Systems and Instrumentation.

As with other years, a significant proportion of Programme Stage 3 is focused upon project design work. Your design tasks require you to draw together and apply knowledge gained over a number of subject areas. In Programme Stage 3 you also study specialist topics including Control Engineering, Advanced Programming, System Integration and Advanced Systems Engineering as well as the highly topical 'Internet of Things' (IoT) and Real-time Systems. These modules involve looking at analysis in increasing depth alongside examining a greater breadth of system complexity. The Engineering in Society module in Programme Stage 3 focus upon people and organisations, with case studies and invited lectures from industry professionals. At Programme Stages 3 you select one from a range of Level-6 individual research projects.

If you wish to gain practical experience during your degree, then you have the option of spending 12 months on a paid industrial placement. This industrial placement can be taken either between Programme Stages 2 and 3 or split them over two summers between the years of study. We strongly recommend this (see the subsequent section entitled 'What Placement opportunities are available?').

At the end of the programme, you will have acquired the knowledge and understanding of analysis and design techniques, practical and personal skills required for a career across a broad spectrum of engineering today.

The BEng Honours Programme is a three-year full-time degree comprising 360 credits (3600 study hours) structured as three Programme Stages, each typically delivered over 22 contact weeks, 4 examination weeks, 4 reflective learning (private study) weeks and 8 vacation weeks (which may be used for private study) per academic year. A BEng (Hons) Programme therefore requires a commitment of 40 study hours per week during the academic year.

Certificate of Higher Education

Upon successful completion of Programme Stage 1 you will be able to: (i) discuss underlying concepts and principles associated with fundamental science and technology, (ii) to develop skills in time and quality management and (iii) present, interpret and evaluate quantitative and qualitative data within your subject of study appropriate to the formation of an engineer. At this stage, having gained all the necessary credits, you will either: (i) automatically progress onto Programme Stage 2 of the BEng (Hons) in Engineering Systems or (ii) decide to switch onto one of 6 other BEng (Hons) engineering degrees or (iii) leave the University with a Certificate of Higher Education in Engineering.

Diploma of Higher Education

Upon successful completion of Programme Stage 2 you will have: (i) built upon your previous knowledge and experience, (ii) developed critical understanding of the well-established principles, and of the way in which those principles have developed in your area of study and (iii) advanced your skills of enquiry and different approaches to problem-solving as well as identify the limitations of your knowledge in your subject. At this stage, having gained all the necessary credits, you will either: (i) automatically progress onto Programme Stage 3 of the BEng (Hons) in Engineering Systems or (ii) leave the University with a Diploma of Higher Education in Engineering Systems. At the end of Programme Stage 2, you also have the opportunity for you to move to Programme Stage 3 of the MEng (Hons) degree in Engineering Systems if you have achieved an overall aggregate mark of at least 50% at the end of Programme Stage 2.

BEng (Hons) Degree

Upon successful completion of Programme Stage 3 you will: (i) have developed a coherent systematic, detailed knowledge of your discipline and (ii) be able to confidently develop and employ appropriate techniques and methods in mathematical modelling and experimentation for engineering problem-solving, analysis and design.

Aims

Engineering systems is integral to the design and implementation of successful new systems, taking an interdisciplinary approach to complex systems and the analysis of interactions which will involve information and processes, as well as people, products, and services, to enable the successful realization and use of engineered systems today. The overall aim of the BEng (Hons) in Engineering Systems is to provide an excellent education in engineering with specialised training for a professional career in the industries underpinned by a wide variety of engineering disciplines. This will include the research, development, design, production, commissioning, operation and management aspects across a wide variety of industries. Students will be trained in the design and architecture, as well as the analysis and management of such systems, implementing systems principles and concepts. In addition, students are expected to exercise leadership in project management and initiate independent research and critical analysis into specialized and advanced fields in engineering. The broad aims are to produce graduates who:

- have a broad and in-depth knowledge and comprehensive understanding to solve a range of complex technical problems in systems engineering, scientific research, design environments and professional practice,
- are able to apply and integrate knowledge and understanding of other engineering disciplines to support their studies and research in engineering,
- are logical, creative, numerate, have a natural curiosity about the scientific world and are able to problem-see as well as problem-solve,
- demonstrate an attention thoroughly to detail of current problems of their academic discipline, without losing sight of the overall picture,
- have a sound knowledge and understanding of business and management to participate effectively in teamwork and large commercial organisations,
- are aware of their professional practices and ethical responsibilities, the global and societal impact of engineering solutions, as well as the economic and political issues,
- are able to communicate effectively with full technical details to a wide range of audiences,

- exhibit team loyalty and have the ability and confidence to be a leader in industry.

WHAT WILL I BE EXPECTED TO ACHIEVE?

This Programme has been developed in accordance with the QAA Subject Benchmark for Engineering. Learning outcomes which must be delivered by BEng Programmes, accredited by Professional Engineering Institutions as meeting the educational requirements for registration as a Chartered Engineer, are defined in general terms in the 4th edition of the Accreditation of Higher Education Programmes, published at www.engc.org.uk. The module learning outcomes listed below are accordingly all cross-referenced to these mandated AHEP4 learning outcomes.

On successful completion of this programme, you will be expected to be able to:

Knowledge and understanding:

- Explain and develop the scientific principles upon which engineering systems is based, including those which underpin current technological advances in the sector (C1).
- Analyse and solve different engineering problems using comprehensive knowledge and understanding of a range of mathematical and computational models (C2).
- Apply and extend engineering techniques to engineering concept, design, build and test processes, including customer requirements, dependencies, assumptions, constraints, uncertainties and creative solutions to problems; also with recent or planned developments in practice (C5, C6, C7, C9, C12, C13).
- Apply practical experience of the concept of fitness for purpose and the separate consideration of innovative systems design for production, operation, maintenance and disposal of an engineering system to meet future needs (C5, C6, C7, C12).
- Apply practical experience of the multi-disciplinary character of engineering and making sound and clear decisions based upon social, environmental/sustainable development, ethical, legal, economic and commercial considerations (C7, C8, C15).
- Conform with current technological and manufacturing/operational practice in the engineering and healthcare industry and with future trends in relevant areas (C4, C7, C13).
- Implement fully the concepts from outside engineering which nonetheless drive engineering practice and business development (C5, C13).
- Apply fully the broad range of management tools and techniques required to create and run an engineering business (C9, C10, C14, C15).
- Apply knowledge and understanding, of the type described above, specific to the principles and practice of energy/transport/structure and to engineering systems design, manufacture, operation and maintenance and extensive awareness of developments in the field (C5, C6, C12, C13).
- Assess and predict the engineering industry as a business enterprise in national and international economies (C5).

Skills:

- Tackle confidently unfamiliar engineering problems (C18).
- Gather, integrate and evaluate information from various sources including technical literature (C4).
- Break down a problem into a series of engineering tasks to be solved under a set of multi-disciplinary constraints (C5).
- Communicate effectively in technical and non-technical languages, written, oral and graphical forms to individuals and large audiences (C17).
- Be proficient with CAD, IT and communications systems specifically to the analysis and design of different engineering systems (C3, C17).
- Use laboratory equipment for data measurement, processing, interpreting and analysis, or produce or modify an engineering component (C3, C12, C13).
- Be proficient with analytical, computational and experimental techniques (including assessing the limitations of the results obtained), coupled with experience and decision-making, to solve engineering problems (C2, C3).
- Apply initiative, creativity and innovation to design, construct and test a system, component or process to meet specifications (C5).
- Evaluate designs, processes or products and make improvements, taking into consideration associated commercial risks, health, societal and environmental impact (C7, C9, C10).
- Work with technical uncertainty (C13).
- Work with levels of detail appropriate to the criticality of the task (C5).
- Plan for and manage time/cost/quality of an engineering project and, where necessary, use theory or experimental research to mitigate deficiencies, including adjusting plans to changing circumstances and controlling such adjustments (C7, C9, C10).
- Exercise leadership in both individual and team work, and willingly take the lead in difficult situations (C14, C15, C16).

Values and attitudes:

- Put the needs of the team ahead of one's own needs (C16).
- Willingly take on the professional and ethical responsibilities of engineers in society (C8); commit to continuous improvement to enhance professional skills and benefit society (C18).
- Value the impact of engineering to society and to the global economy (C7) while recognising the need for the engineering systems industry to contribute in a sustainable way (C7).
- Recognise that there is only one type of engineer, a person that tackles and solves problems, independently of gender, religion or race, with awareness of the social importance of inclusion (C11).

HOW WILL I LEARN?

In Programme Stages 1 and 2 there is a higher proportion of supervised study, compared with Programme Stages 3 with typically 20-24 hours of contact timetabled each week. These supervised contact hours are designed to assist and to focus your private study. Teaching involves a combination of theoretical, experimental and computational study.

Contact hours are made up of: lectures, which direct you towards the most important topics in the field and which allow discussion and clarification of areas of uncertainty with expert staff; tutorials where staff are on hand to help with problem-solving exercises; laboratory and workshop classes where practical situations and methods are encountered; and research or design/build projects, both individually and in groups, where personal skills, teamwork, creativity and critical thinking are developed and where knowledge built up elsewhere in the programme is integrated and developed. Site visits are used to place taught sessions in the context of real-world industries or products.

Our approach is to encourage critical thinking and foster your curiosity. By the time that you reach Programme Stage 3, the tutorial and practical elements are managed more by you, especially in relation to your individual project work. Also Programme Stage 3 gives you an opportunity to work independently, under the guidance of a member of staff, to undertake research into a topic that you may not have covered in taught material. You will have the opportunity to apply your knowledge and understanding to the solution of engineering problems, in topics related to engineering systems.

Engineering is a practical discipline which benefits from significant supervised study, but it cannot be learnt through lectures alone. The remaining hours of private study each week are essential to the achievement of the learning outcomes and are guided using both formative and summative coursework tasks set during the academic year. Your private study is also supported by the use of Moodle, City's Online Learning Environment. This provides online access to module content, feedback, guidance on completing coursework, audio-visual resources, etc.

WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

The Programme is subdivided into Programme Stages (years of study) and each Programme Stage into modules (coherent groupings of syllabus topics addressing particular Learning Outcome types). Each module in the programme may have one or more assessment components of differing types. Assessment components may involve more than one assessment task (e.g., they may be an aggregate of different coursework marks or multiple examination papers). Modules that contain multiple assessment components (either coursework or exam) for which individual minimum pass marks are required are specified in the relevant module specifications.

Some modules will have an examination component in addition to a coursework (continuous assessment) component. Many skills need to be honed by practice: to this end formative assessments, may be organised within each module with appropriate and timely feedback mechanisms.

Examinations are used because they provide a controlled environment in which to assess knowledge and understanding and problem-solving skills. The time pressure and lack of prior warning about specific issues to be tackled is representative of real-world situations faced by practicing engineers. Coursework assessments vary from paper assignments (which may be similar to examinations but with longer time scales and with access permitted to information sources) to the assessment of practical skills which cannot be done in the exam hall. For example, communication skills (e.g., presentations, drawings and written reports), personal skills (such as teamwork or leadership), planning and design (both software and hardware), data analysis, critical review of information and the use of workbench and CAE tools are usually assessed by means of coursework tasks.

Often coursework tasks may be set which are not to be assessed but which are valuable as a learning experience. This is known as formative coursework and is often the key to improving grades on assessed or summative coursework. You will receive feedback from all coursework assessments, both formative and summative to enable you to develop and enhance your assessment performance.

Assessment Criteria are descriptions, based on the intended learning outcomes, of the skills, knowledge or attitudes that you need to demonstrate in order to complete an assessment successfully, providing a mechanism by which the quality of an assessment can be measured. Grade-Related Criteria are descriptions of the level of skills, knowledge or attributes that you need to demonstrate in order to achieve a certain grade or mark in an assessment, providing a mechanism by which the quality of an assessment can be measured and placed within the overall set of marks. Assessment Criteria and Grade-Related Criteria will be made available to you to support you in completing assessments. These may be provided in programme handbooks, module specifications, on the virtual learning environment or attached to a specific assessment task.

Feedback on assessment

Feedback will be provided in line with our Assessment and Feedback Policy. In particular, you will normally be provided with feedback within three weeks of the submission deadline or assessment date. This may be written (on the hard copies and online) or oral (in class), specific to you or generally applicable, and would normally include a provisional grade or mark. If the coursework submitted is a laboratory report, then your work will not be returned until three weeks after the last report has been submitted. Laboratories are undertaken by groups of you in rotation over periods of many weeks and consequently the last group of you may complete the laboratory and submit the report many weeks after the first group.

For end-of-module examinations or an equivalent significant task (e.g., an end-of-module project), a generic feedback will normally be provided within four weeks of the last day of exam period. The timescale for feedback on final year projects or dissertations may be longer and starts from the date of the final presentation of the project. The full policy can be found at:

https://www.city.ac.uk/_data/assets/pdf_file/0009/452565/Assessment-and-Feedback-Policy...pdf

Assessment Regulations

In order to pass your programme, you should complete successfully (or be exempted from) the relevant modules and assessments and will therefore acquire the required number of credits. You also need to pass each preceding Programme Stage of your Programme in order to progress to the following Programme Stage.

Your overall aggregate mark will be calculated by combining the aggregate marks from Programme Stages 1, 2 and 3 in the ratio 1:3:6.

The pass mark for each module is 40%. In some modules there will be a requirement to pass individual components of the module (where the pass mark for these components will also be 40%). Details of which assessment components need to be passed individually is provided in the Module Specification.

If you fail an assessment component or a module, the following will apply.

1. Compensation: where, if you fail up to a total of one sixth of the total credits at first or resit attempt, you may be allowed compensation if:
 - Compensation is permitted for the module involved (see the What will I study section of the Programme Specification), and
 - it can be demonstrated that you have satisfied the Learning Outcomes of the modules in the Programme Stage, and
 - a minimum overall mark of at least 30% has been achieved in the module to be compensated, and
 - an aggregate mark of at least 40% has been achieved for the Programme Stage under consideration.

Where you are eligible for compensation at the first attempt, this will be applied in the first instance rather than offering a resit opportunity.

If you receive a compensated pass in a module then you will be awarded the full 15 credits for that module. The original component marks will be retained in the record of marks and your original module mark will be used for the purpose of your Award calculation.

Note that the total amount of compensated credits cannot exceed 30 during your whole study degree

2. Resit: where you are not eligible for compensation at the first attempt, you will be offered one resit attempt.

If you are successful in the resit, you will be awarded the full credit for that module. The mark for each assessment component that is subject to a resit will be capped at the pass mark for the module. This capped mark will be used in the calculation of the final module mark together with the original marks for the components that you passed at first attempt.

If you do not meet the pass requirements for a module and do not complete your resit by the date specified, you will not progress to the next Programme Stage and the Assessment Board will require you to be withdrawn from the Programme.

If you fail to meet the requirements for a particular Programme Stage or the Programme, the Assessment Board will consider whether you are eligible for an Exit Award as per the tables shown below.

If you would like further information about the way in which assessment works at City, please see the full version of the Assessment Regulations at:

https://www.city.ac.uk/_data/assets/pdf_file/0007/453652/s19.pdf

WHAT AWARD CAN I GET?

Bachelor's Degree with Honours in Engineering Systems:

Programme Stage	HE Level	Credits	Weighting (%)	Class	% required
1	4	120	10	I	70
2	5	120	30	II upper division	60
3	6	120	60	II lower division	50
				III	40

Ordinary Degree in Engineering Systems:

Programme Stage	HE Level	Credits	Weighting (%)	Class	% required
1	4	120	10	With Distinction	70
2	5	120	30	With Merit	60
3	6	60	60	Without classification	40

Diploma of Higher Education in Engineering Systems:

Programme Stage	HE Level	Credits	Weighting (%)	Class	% required
1	4	120	25	With Distinction	70
2	5	120	75	With Merit	60
				Without classification	40

Certificate of Higher Education in Engineering:

Programme Stage	HE Level	Credits	Weighting (%)	Class	% required
1	4	120	100	With Distinction	70
				With Merit	60
				Without classification	40

WHAT WILL I STUDY?

Programme Stage 1

Programme Stage 1 comprises eight core Level-4 modules, totalling 120 credits. To pass Stage 1 you must obtain all 120 credits, as specified in the Programme Scheme.

Module Title	SITS Code	Module Credits	Core or Elective	Can module be compensated?	Level
The Engineering in Society - Social responsibility		15	Core	No	4
Engineering Design 1		15	Core	No	4
Introduction to Mechanics of materials and manufacturing		15	Core	No	4
Electronics - including circuits, digital and analogue electronics		15	Core	No	4
Introduction to programming		15	Core	No	4
Engineering Science		15	Core	No	4
Mathematics - I		15	Core	No	4
Introduction to Systems Engineering		15	Core	No	4

Programme Stage 2

Programme Stage 2 comprises eight core Level-5 modules, totalling 120 credits. To pass Programme Stage 2 you must obtain all 120 credits, as specified in the Programme Scheme.

If you wish to gain practical experience you have the option of spending a year on paid industrial placement between Programme Stages 2 and 3. You also have the option to split the placement over two periods in the summer between the years of study.

Module Title	SITS Code	Module Credits	Core or Elective	Can module be compensated?	Level
The Engineer in Society: Sustainability and Circular Economy		15	Core	No	5
Mathematics - II		15	Core	No	5
Engineering Design II		15	Core	No	5
Signals & Communications		15	Core	No	5
Electronics 2 (including Electromagnetics)		15	Core	No	5
Mechatronics and Systems		15	Core	No	5
Data Analysis for Engineers		15	Core	No	5
Sensor Systems and Instrumentation		15	Core	No	5

Upon obtaining all 120 credits, you may progress to Programme Stage 3 of the BEng Programme or request to be transferred to Programme Stage 3 of the MEng programme. To do so, you must have achieved a module average of at least 50% at the end of Programme Stage 2.

Programme Stage 3

Programme Stage 3 comprises seven core Level-6 modules, totalling 120 credits. To pass Programme Stage 3 you must obtain all 120 credits, as specified in the Programme Scheme.

A student who has successfully completed Programme Stage 3 of a BEng programme may, with the approval of the Assessment Board, transfer to Programme Stage 4 of the related MEng programme provided that they have obtained an overall aggregate mark of at least 50% at Programme Stage 3.

Module Title	SITS Code	Module Credits	Core or Elective	Can module be compensated?	Level
Individual project		30	Core	No	6
Systems Engineering in the society		15	Core	Yes	6
Control Engineering		15	Core	Yes	6
Advanced Programming		15	Core	Yes	6
System Integration		15	Core	Yes	6
Advanced Systems Engineering		15	Core	Yes	6
Internet of Things (IoT) and Real-time Systems		15	Core	Yes	6

TO WHAT KIND OF CAREER MIGHT I GO ON?

Systems engineers are trained in the design and architecture, as well as the analysis and management of such systems, implementing systems principles and concepts, as well as scientific, technological, and management methods. Engineering systems underpin every aspect of our modern society, from communications and entertainment to finance and healthcare, including construction, manufacturing and transport. Engineering is one of the UK's largest and most important business sectors, with value to the UK economy running to hundreds of billions of pounds annually, employing millions of people in the country doing some of the best paid, 'high-tech' jobs and contributing significantly to the tax revenues that support society.

A wide range of today's engineering products require the integration of concepts across the breadth of engineering, including civil, mechanical, electrical and computer science fields – it is the role of systems engineers to both design and analyse the function and behaviour of such systems to enable them to work in an optimum and dynamic way. The Systems Engineer undertaking this course will be trained to understand and analyse the broader context in which the system is used, integrating processes, information flow and the role of people in the system in a holistic way, dealing with the challenges of complex

interactions across the system, analysing and managing that complexity and risk, to enable the system deployed to work as intended.

This course has been designed to enable its graduates to be successful through understanding the world's systems engineering capabilities and future demands and allowing them to pursue a satisfying and rewarding career in industry, working in environments where they can take full advantage of the synergies between the disciplines in multidisciplinary organizations where such systems-based thinking is essential. Graduates will be prepared to contribute to many industrial sectors, e.g., transportation, telecommunications, Internet of Things, robotics, manufacturing, and energy.

The Centre for Career & Skills Development provides a service to current undergraduates and postgraduates, as well as recent graduates of the University. Their aim is to provide you with advice, information and skills that you need to make a smooth transition into the world of professional engineering. If you would like further information on the careers support available at City, please go to: <http://www.city.ac.uk/careers>

WHAT STUDY ABROAD OPTIONS ARE AVAILABLE?

At present these options are not available; they are still under development.

WHAT PLACEMENT OPPORTUNITIES ARE AVAILABLE?

If you wish to take a professional placement between Programme Stages 2 and 3 of your degree, then you will need to register accordingly at the beginning of Programme Stage 3. We strongly encourage you to undertake a 12-month placement or 6–8-week Summer Internship, as you will benefit greatly from the experience; providing you with a distinct advantage when you seek employment upon graduation. SMCSE's Professional Liaison Unit (PLU) collaborates with the University Career and Skills Development Service to deliver a series of Professional Development workshops to prepare you for searching for and applying for a work placement. The PLU is in regular contact with companies and other organisations concerning the availability of training opportunities and will advise you on making applications.

You are welcome to make your own applications, but you will be asked to discuss these with the PLU's Work Based Learning Advisor. Support is provided in the SMCSE Placement & Internships Resource Centre module on Moodle.

If you are on an approved Professional Placement then your experience will be graded on the basis of (i) reports from two visits made by the Visiting Tutor (a member of academic staff) familiar to the subject and (ii) your final report. Informal contact is maintained throughout the 12 months, as necessary. Although your placement is reported on the degree transcript, the grading does not contribute to the final degree result.

Placement guidelines are issued to you and your employer at the commencement of training, and these include a placement health and safety booklet. The guidelines also include a section on workplace learning. Early in the placement year, you are required to

produce a placement plan in conjunction with your Workplace Supervisor and the Visiting Tutor.

WILL I GET ANY PROFESSIONAL RECOGNITION?

Accrediting Body(s): Institution of Engineering and Technology (IET), Institute of Measurement & Control (InstMC)

Nature of Accreditation

Our current Electrical Engineering degrees are accredited by the above institutions, providing a path for students on those programmes to gain Chartered Engineering status. This programme has been designed to satisfy the above institutions' accreditation criteria and an application for accreditation will be made in due course. We have every expectation that these degrees will similarly receive full accreditation.

HOW DO I ENTER THE PROGRAMME?

The following entrance requirements typically apply.

UCAS tariff points

120.

A-levels

BBB; including A-Level Mathematics. You are also required to have passed GCSE English Language at grade 4, or higher.

IB

30 points with 'Higher Level Mathematics at grade 5' OR 'Standard Level Mathematics at grade 7 AND Higher-Level Physics/Biology/Chemistry at grade 5'.

BTEC

BTEC (Level 3 Nationals only).

D*DD in Engineering (RQF) (First teaching Sept 2016) with minimum grade D in units 1 - Engineering Principles, 7 - Calculus to Solve Engineering Problems and 8 - Further Engineering Mathematics. Candidates must also have a minimum of grade 6 in GCSE Mathematics and Science/Physics.

English language requirements

For overseas candidates, an IELTS score of 6.0 (with a minimum of 5.5 in all components) is required. TOEFL is not accepted as evidence of English language

ability for students that require a Confirmation of Acceptance for Studies.

Entry via Foundation Course

You will be offered a place on the BEng (Hons) degree in Engineering Systems should you both (i) successfully satisfy the City, University of London interview panel and (ii) obtain an overall grade of at least 65% on the Biomedical Engineering Foundation programme at: City and Islington College, INTO City University London International or Kaplan International College.

RPL/RPEL

Direct entry into Programme Stage 2 may be considered for candidates who have successfully completed the first year of a similar accredited MEng or BEng degree.

Scholarships

Undergraduate students are considered for a wide range of awards (scholarships, bursaries and prizes) throughout their studies in the School. These (internally and externally funded) awards range from £500-£9000 and they are based on a combination of academic merit and hardship. A number of these awards are also available to international students. Further information can be found at:

<http://www.city.ac.uk/study/undergraduate/funding-and-financial-support/scholarships-and-bursaries>

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