PROGRAMME SPECIFICATION

KEY FACTS

<table>
<thead>
<tr>
<th>Programme name</th>
<th>Mechanical Engineering with Foundation Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Award</td>
<td>BEng (Hons)</td>
</tr>
<tr>
<td>School</td>
<td>School of Mathematics, Computer Science and Engineering</td>
</tr>
<tr>
<td>Department or equivalent</td>
<td>Mechanical Engineering and Aeronautics</td>
</tr>
<tr>
<td>UCAS Code</td>
<td>H302</td>
</tr>
<tr>
<td>Programme code</td>
<td>USMECF</td>
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<tr>
<td>Type of study</td>
<td>Full Time</td>
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<tr>
<td>Total UK credits</td>
<td>480</td>
</tr>
<tr>
<td>Total ECTS</td>
<td>240</td>
</tr>
<tr>
<td>Partner (partnership programme only)</td>
<td>Foundation Year delivered at Westminster Kingsway College</td>
</tr>
<tr>
<td>Type of Partnership</td>
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</tr>
</tbody>
</table>

PROGRAMME SUMMARY

This programme, which is only offered full time, starts with a Year 0 foundation year that provides the essential mathematical and scientific background necessary to progress to Programme Stage 1 of the BEng programme in Mechanical Engineering. The foundation year is studied at Westminster Kingsway College at their Gray’s Inn Campus. The BEng programme is divided into three Programme Stages (1, 2 and 3), each occupying a full academic year, which leads to a BEng degree that is accredited by the Institution of Mechanical Engineers.

The entry point to the BEng programme with foundation year is at the start of the foundation year. If you reach the required level at the end of the foundation year you can transfer to Programme Stage 1 of the Mechanical Engineering programme or any of the other BEng Engineering programmes offered in the department of Mechanical and Aeronautics, City, University of London. If you obtain a Programme Stage 2 aggregate mark of 60%, or higher, you have the option of transferring to the MEng (Hons) degree.

The core topics studied in the foundation year are Mathematics, Mechanics and Physics. You also study Computing and IT and undertake a programme of laboratory tests at City.

The BEng Honours Programme is a three-year full time or four-year sandwich course of 360 credits (3600 study hours) structured as three Programme Stages, each delivered over typically 20 contact weeks, six examination weeks, four reflective learning (private study) weeks and eight vacation weeks (which may be used for private study) per academic year. A BEng Honours Programme therefore requires a commitment of 40 study hours per week during the academic year. The industrial placement lasts a year and occurs between Programme Stage 2 and 3 of the programme.

Engineering knowledge and skills are developed with specific objectives during each of the three Programme Stages. Programme Stage 1 is designed to give you a thorough grounding in the skills and science appropriate to the formation of an engineer, as well
as developing personal skills such as time and quality management. In Programme Stage 2 you learn to apply engineering analysis to simple but representative components of engineering systems. Design skills and team work are also developed. Management themes in Programme Stage 2 include project management and risk analysis. Over one third of Programme Stage 3 is focussed upon project work, both individual and in groups. This gives you a realistic exercise in the practice of engineering at a professional level and enables you to integrate and apply knowledge gained over a number of subject areas. In Programme Stage 3 you also study specialist topics which span both increasing depth of analysis and increasing breadth of engineering system complexity. Management at Programme Stage 3 focuses upon people and organisations with case studies and invited lectures from industry professionals. If you wish to gain practical experience you have the option of spending a year on paid industrial placement. The Information relevant to the administration of the placement can be found in the “SMCSE Placement & Internships Resource Centre”, which helps you find placements and internships, and will be publicised through the student facing “Focal Point” in Moodle, the online learning environment.

Classroom-based learning, practical work, tutorials and clinics, project work, site visits, research and private study are used in all years and key skills are assessed both by examination and by continuous assessment (coursework) for all types of engineering practice. The split between examination and coursework assessment is very close to 50:50 over the programme lifetime.

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

The BEng Mechanical Engineering Route shares Programme Stage 1 with all other BEng and MEng Programmes in the Mechanical Engineering and Aeronautics Department Part 2, which introduces the fundamentals of mechanical design. and at Programme Stage 3 are the important topics of Systems Reliability and Sustainability. At Programme Stage 3 the mechanical disciplines of structures, mechatronics, heat transfer are further developed also. Final year Individual Projects are available across a range of topics and there is a significant practical build-and-test element in the mechanical Group Design activities, with options to work on the collaborative European Global Product Realisation project or a Developing Technologies project.

Certificate of Higher Education
The first exit route is for Certificate of Higher Education in Mechanical Engineering which you are entitled to if you successfully complete and gain the credits of all the modules in Programme Stage 1.

For all of you completing Programme Stage 1 or the Certificate of Higher Education in Mechanical Engineering you will be able to discuss underlying concepts and principles associated with fundamental science and technology and to develop skills in time and quality management and present, interpret and evaluate quantitative and qualitative data within your subject of study appropriate to the formation of an engineer.
Diploma of Higher Education
The second exit route is for Diploma of Higher Education in Mechanical Engineering which you are entitled to if you successfully complete and gain the credits of all the modules in Programme Stages 1 and 2.

For all of you completing Programme Stage 2 or the Diploma of Higher Education in Mechanical Engineering you will build on your previous knowledge and experience and develop critical understanding of the well-established principles, and of the way in which those principles have developed in your area of study. You will develop skills of enquiry and different approaches to problem-solving as well as identify the limitations of your knowledge in your subject.

BEng (Hons) Degree
The final exit route is for the award of the BEng(Hons) degree in Mechanical Engineering which you are entitled to if you successfully complete and gain the credits of all the modules in Programme Stages 1, 2 and 3.

For all of you completing Programme Stage 3 in Mechanical Engineering, you will further develop a coherent systematic, detailed knowledge of your discipline. You will be able to confidently develop and employ appropriate techniques and methods in mathematical modelling and experimentation for engineering problem-solving, analysis and design.

Aims
The overall aim of the programme and its more specialised routes is to provide a well-rounded education and also specialised training for a professional career in the industries underpinned by the mechanical engineering disciplines, including energy engineering and automotive engineering. This will include the research, development, design, production, commissioning and management aspects of those industries.

The specific aims are to produce graduates who:
- have the ability and confidence to play an effective role in industry
- have a broad and in-depth knowledge and understanding to solve complex technical problems in engineering and design environments
- have a sound knowledge and understanding of business and management to participate effectively in team work and large commercial organisations;
- are aware of their professional and ethical responsibilities, the global and societal impact of engineering solutions, as well as the economic and political issues
- are able to communicate effectively.

WHAT WILL I BE EXPECTED TO ACHIEVE?
On successful completion of this programme, you will be expected to be able to:

Knowledge and understanding:
• Understand the scientific principles upon which mechanical engineering and its associated engineering disciplines, especially in the transport and energy sectors,
are based; (UK-SPEC KU1, US1, E1;)
• Understand the mathematical and computational approaches used to analyse engineering components and systems; (UK-SPEC KU1, US2, E1);
• Build on experience of the engineering design/build/test process, including customer requirements, dependencies, assumptions, constraints and creative solutions to problems; (UK-SPEC IA2, D1, D2, D3, D4, D6);
• Understand the concept of fitness for purpose and the separate consideration of production, operation, maintenance and disposal of an engineering system; (UK-SPEC D2, D5, P7);
• Appreciate the multi-disciplinary character of engineering and the importance of social, environmental/sustainable development, ethical, legal, economic and commercial considerations when exercising engineering judgement; (UK-SPEC KU2, KU3, US3, D3, S1, S4);
• Explain current manufacturing and/or operational practice in a relevant industry. (UK-SPEC S1, S3, P1, P3, P6);
• Understand the broad range of management tools and techniques required to run an engineering business (UK-SPEC S2, S4, P5).
• Demonstrate extended knowledge and understanding, of the type described above, specific to the principles and practice of mechanical design, manufacture, operation and maintenance. (UK-SPEC US1, US3, E4);
• Demonstrate a broad knowledge of the industries supported by mechanical engineering and their roles as business enterprises in national and international economies. (UK-SPEC E3, S1, P6);

Skills:
• Gather, integrate and evaluate information from various sources including technical literature; (UK-SPEC GT1, P4);
• Break down a problem into a series of engineering tasks to be solved under a set of multi-disciplinary constraints. (UK-SPEC D1).
• Communicate effectively in technical and non-technical languages, written, oral and graphical forms to individuals and large audiences; (UK-SPEC GT1);
• Use CAD, IT and communications systems effectively; (UK-SPEC GTA1);
• Use laboratory equipment for data measurement, processing, interpreting and analysis; (UK-SPEC P2, P8);
• Use workshop equipment to produce or modify an engineering component (UK-SPEC PS1, P2);
• Use analytical, computational and experimental techniques, coupled with experience and decision-making, to solve engineering problems; (UK-SPEC IA1, E2, E3, D1);
• Design, construct and test a system, component or process to meet specifications; (UK-SPEC E4, D5, D6);
• Evaluate designs, processes or products and make improvements; (UK-SPEC IA2, D6, P7);
• Work with technical uncertainty; (UK-SPEC P8);
• Work with levels of detail appropriate to the criticality of the task; (UK-SPEC PS1,
D3, D6, P7);
• Plan for and manage time/cost/quality of an engineering task;
• Apply analytical, computational and CAD techniques specifically to the analysis and
design of mechanical devices and systems.
• (UK-SPEC US2, E3);

Values and attitudes:
• Put the needs of the team ahead of those of the individual; UK-SPEC GT1);
• Willingly take on the professional and ethical responsibilities of engineers in society;
(UK-SPEC KU3, S5);
• Commit to continuous improvement to enhance professional skills and benefit society; (UK-SPEC GT1, P7);
• Appreciate the value of mechanical engineering to society and to the global
economy. (UK-SPEC KU3);
• Appreciate the need for the mechanical engineering industry to contribute in a
sustainable way. (UK- SPEC KU3);

This programme has been developed in accordance with the QAA Subject Benchmark
for Engineering.

HOW WILL I LEARN?

Typically 70% of learning in Higher Education is through private study. Engineering is a
practical discipline which cannot be learnt just in the classroom. The remaining 30% of
contact time is there to assist and to focus private study. In Programme Stage 1 there is
a higher proportion of supervised study with typically 9 or 10 hours of lectures, 4 hours of
tutorial and 8 hours of practical work timetabled per week. By Programme Stage 3 the
tutorial and practical elements are managed by you as part of individual and group
project work. The remaining 16 hours per week of private study are essential to
achievement of the learning outcomes and are guided using formative and summative
coursework tasks set during the course of the year.

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. Field trips
are used to place taught sessions in the context of real-world industries or products.

WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

Assessment and Assessment Criteria
Each 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 will have one or more assessment components of varying 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).

Many modules will have an examination component as well as a coursework (continuous assessment) component. Examinations are used because they provide a controlled environment in which to assess knowledge & understanding and problem-solving skills. The time pressure and lack of prior warning about specific problems to be tackled is also representative of real-world situations faced by practising 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, within three weeks of submission, to allow you to learn from mistakes made in the assessment.

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 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 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: 

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 Programme Stage of your Programme in order to progress to the following Programme Stage and achieve the appropriate level in the foundation year to proceed to Programme Stage 1.

Your overall aggregate mark will be calculated by combining the aggregate marks from Programme Stages 1, 2 and 3 in the ratio 0:3.33:6.67.

The pass mark for each module is 40. In most modules there is also a requirement to pass individual components of the module. The pass mark for these individual components is also 40%. The details of which assessment components need to be passed individually is given in the module specification.

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

1. **Compensation:** where you fail up to a total of one sixth of the total credits of a Programme Stage 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 all the Learning Outcomes of the modules in the Programme Stage, and
   - A minimum overall mark of no more than 10% below the module pass mark has been achieved in the module to be compensated, and
   - An aggregate mark of 40% has been achieved for the Programme Stage.

   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 you will be awarded the credit 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.

2. **Resit:** where you are not eligible for compensation at the first attempt, you will be offered one resit attempt. However, for certain modules the right to resit is withheld either by the accrediting bodies or because failure in one or other assessment clearly
indicates a lack of engagement with the programme. These modules are specifically listed in the progression rules for each Programme Stage.

If you are successful in the resit, you will be awarded the 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 table below.

If you would like to know more about the way in which assessment works at City, please see the full version of the Assessment Regulations at: http://www.city.ac.uk/__data/assets/word_doc/0003/69249/s19.doc

### WHAT AWARD CAN I GET?

**Bachelor’s Degree with Honours:**

<table>
<thead>
<tr>
<th>Programme Stage</th>
<th>HE Level</th>
<th>Credits</th>
<th>Weighting (%)</th>
<th>Class</th>
<th>% required</th>
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<tr>
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<td>120</td>
<td>0</td>
<td>I</td>
<td>70</td>
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<tr>
<td>2</td>
<td>5</td>
<td>120</td>
<td>33.3</td>
<td>II upper division</td>
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<tr>
<td>3</td>
<td>6</td>
<td>120</td>
<td>66.7</td>
<td>II lower division</td>
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**Ordinary Degree:**

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<th>HE Level</th>
<th>Credits</th>
<th>Weighting (%)</th>
<th>Class</th>
<th>% required</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>120</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
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<tr>
<td>3</td>
<td>6</td>
<td>60</td>
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**Diploma of Higher Education:**

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<th>Weighting (%)</th>
<th>Class</th>
<th>% required</th>
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<tr>
<td>1</td>
<td>4</td>
<td>120</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>5</td>
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**Certificate of Higher Education:**

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<th>HE</th>
<th>Credits</th>
<th>Weighting</th>
<th>Class</th>
<th>% required</th>
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</table>
Programme Stage 1

Foundation Year 0

To proceed to Programme Stage 1 you must have achieved the appropriate level in the foundation year. The foundation year consists of one compulsory module worth 120 credits.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/Elective</th>
<th>Can be compensated?</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation year module</td>
<td>ME0001</td>
<td>120</td>
<td>C</td>
<td>N</td>
<td>3</td>
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</tbody>
</table>

To pass Programme Stage 1 you must have acquired 120 credits and must pass all modules studied in the Programme Stage. The “In-year Progress” assessment component of ME1110, Engineering Practice 1, must be passed as a first attempt for a re-sit opportunity to be granted for any of the other assessments in this module.

Where prior practical experience can be demonstrated, exemptions may be granted (at the pass mark) for some of the module assessments, according to the module specification.

You may be exempted from coursework re-assessment tasks in ME1109 and ME1111, provided that you have passed the examination component and overall pass mark of the modules at first attempt and the Assessment Board deems that you have successfully met the learning outcomes of the modules.

Programme Stage 1 comprises three compulsory modules designed to give you a thorough grounding in the scientific understanding, mathematical analysis and practical skills appropriate to the formation of an engineer. Continuous assessment accounts for 50% of the marks available for the Programme Stage and a coursework schedule is published each year, specifying which subjects are to have coursework set in any one week so that you can manage your coursework over the year.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/Elective</th>
<th>Can be compensated?</th>
<th>Level</th>
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<tr>
<td>Engineering Science 1</td>
<td>ME1109</td>
<td>60</td>
<td>C</td>
<td>N</td>
<td>4</td>
</tr>
<tr>
<td>Engineering Practice 1</td>
<td>ME1110</td>
<td>30</td>
<td>C</td>
<td>N</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics and Computation 1</td>
<td>ME1111</td>
<td>30</td>
<td>C</td>
<td>N</td>
<td>4</td>
</tr>
</tbody>
</table>
To pass Programme Stage 2 you must have acquired 120 credits and must pass all modules studied in the Programme Stage and you must have made a valid first attempt at the examination component for all Programme Stage 2 modules listed below.

You may be exempted from coursework re-assessment tasks in ME2109 and ME2111, provided that you have passed the examination component and overall pass mark of the modules at first attempt and the Assessment Board deems that you have successfully met the learning outcomes of the modules.

You may be exempted from management coursework re-assessment tasks in ME2110, provided that you have passed the management examination component and overall pass mark at first attempt and the Assessment Board deems that you have successfully met the learning outcomes of module.

Programme Stage 2 comprises four compulsory modules in which you learn to apply engineering science and analysis to simple but representative components of engineering systems. Design skills and team work are also developed with more complex design and build tasks. Engineering Practice themes in Programme Stage 2 include marketing, project management risk analysis as well as laboratory work and reporting.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/ Elective</th>
<th>Can be compensated?</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Analysis &amp; Design</td>
<td>ME2104</td>
<td>30</td>
<td>C</td>
<td>N</td>
<td>5</td>
</tr>
<tr>
<td>Engineering Science 2</td>
<td>ME2109</td>
<td>45</td>
<td>C</td>
<td>N</td>
<td>5</td>
</tr>
<tr>
<td>Engineering Practice 2</td>
<td>ME2110</td>
<td>15</td>
<td>C</td>
<td>N</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics and Computation 2</td>
<td>ME2111</td>
<td>30</td>
<td>C</td>
<td>N</td>
<td>5</td>
</tr>
</tbody>
</table>

Programme Stage 3

Normal progression to an award from Programme Stage 3 is by passing modules up to 120 credits. The AE3030, Individual Project, module must be passed as a first attempt; so must the group design assessment component of ME3100.

The individual project, worth 30 credits, which must be sufficiently challenging in depth as well as in breadth, plays a significant role in the degree course: you are expected to apply critical scrutiny to previous work reported in the literature, to demonstrate creative abilities and imagination, to manage quality, time and resources effectively in pursuing your project to a successful conclusion and to report the findings, both in written and oral form. Engineering Management focuses at Programme Stage 3 upon people and organisations, using case studies and invited lectures from industry professionals. At Programme Stage 3 you take five further modules covering essential specialist knowledge.
### TO WHAT KIND OF CAREER MIGHT I GO ON?

Most graduates choose to enter the Mechanical engineering profession either with consultants or major transport, car manufacturing, utilities, energy systems, oil, fuel and offshore industries. The Mechanical Engineering course prepares you with required technical expertise, initiative and management skills to be able to face modern challenges in relevant industries.

The Centre for Career & Skills Development provides a service to current full-time and part-time undergraduates and postgraduates and to recent graduates of City. Your aim is to give you advice, information and skills you need to make a smooth transition into the world of Engineering works.

If you would like more information on the Careers support available at City, please go to: [http://www.city.ac.uk/careers/for-students-and-recent-graduates](http://www.city.ac.uk/careers/for-students-and-recent-graduates).

### WHAT STUDY ABROAD OPTIONS ARE AVAILABLE?

City, University of London offers a wide range of International Study exchange opportunities to you at partner institutions around the world for both undergraduate and postgraduate programmes. The programme has to be approved by the SMCSE exchange coordinator, City International Exchange Office and the partner institute to ensure the compatibilities of the exchange programmes at both institutes. In addition we have a Liaison Exchange Office at MEA department which acts as personal tutor to all exchange students (incoming and outgoing) and supports and advice you who want to apply for this.

If you would like more information on the City Student Exchange Programme, please go to: [http://www.city.ac.uk/international/international-students/exchange-programmes](http://www.city.ac.uk/international/international-students/exchange-programmes).

### WHAT PLACEMENT OPPORTUNITIES ARE AVAILABLE?

If you are on an approved placement your experience is graded on the basis of reports from two visits made by the Visiting Tutor (a member of academic staff) familiar to the subject and your final report; informal contact is maintained throughout the year as necessary. However, although your placement is reported on the degree transcript but

<table>
<thead>
<tr>
<th></th>
<th>Code</th>
<th>Credits</th>
<th>Elective</th>
<th>compensated?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Project</td>
<td>AE3030</td>
<td>30</td>
<td>C</td>
<td>N</td>
</tr>
<tr>
<td>Control &amp; Mechatronics</td>
<td>ME3101</td>
<td>15</td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Heat Transfer</td>
<td>ME3207</td>
<td>15</td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Engineering Reliability and Sustainability</td>
<td>ME3208</td>
<td>15</td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Fluid Mechanics</td>
<td>AE3301</td>
<td>15</td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Structural Analysis &amp; FEM</td>
<td>ME3302</td>
<td>15</td>
<td>C</td>
<td>Y</td>
</tr>
<tr>
<td>Engineering Management</td>
<td>ET3051</td>
<td>15</td>
<td>C</td>
<td>N</td>
</tr>
</tbody>
</table>
it 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 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.

If you wish to take a professional placement you are advised to register accordingly at the beginning of Programme Stage 2. The School of Engineering & Mathematical Sciences Professional Liaison Unit Work Based Learning Advisor collaborates with the University Career and Skills Development Service to deliver a series of Professional Development workshops during Period 1 of Programme Stage 2 to prepare you for searching for and applying for a work placement. The Professional Liaison Unit is in regular contact with companies and other organisations concerning the availability of training placements and will advise you on making applications.

You are welcome to make your own applications at any time but are strongly advised to discuss these with the Work Based Learning Advisor. Support is provided in the SMCSE Placement & Internships Resource Centre module on Moodle.

**WILL I GET ANY PROFESSIONAL RECOGNITION?**

**Accrediting Body:** The Institution of Mechanical Engineers

**Nature of Accreditation**

Accreditation submission and visit every 5 years.
Accreditation leading to Chartered Engineer Status.

**HOW DO I ENTER THE PROGRAMME?**

Typical offers require one of the following:
A/AS-level: 200 UCAS tariff points, with a minimum of grade D in A-level mathematics.
Point scores exclude general studies and key skills.

BTEC: MMM in Mechanical or Aeronautical Engineering, including M in both mathematics modules plus a minimum of grade D in A-level mathematics.

IB: 22, including High Level mathematics and Standard Level science, or Standard Level mathematics and High Level science.

English language requirements:
IELTS: 6.0 with a minimum of 6.0 in the writing sub-test.
GCSE: English language grade C.
Please note that TOEFL is not accepted as evidence of English language ability for students that require a Confirmation of Acceptance for Studies.
Year 1 entry depends on successful completion of the Westminster-Kingsway College engineering foundation course, the INTO City, University of London International Foundation in Engineering, Computer Science and Mathematics and Engineering Foundation courses offered by Kaplan International College with an overall score of 65% and 65% for some individual modules.

**RPL/RPEL Requirements**
The only entry point is via the foundation year.

**Scholarship**

Scholarships are awarded on an annual basis to you attaining first class results on entry and at the end of Programme Stages 1 and 2.

City, University of London is offering a Scholarship of up to £3,000 per year to UK and EU undergraduate students achieving grades AAB or above at A-level (or equivalent) starting an undergraduate course at City in September 2012. Further details can be found on the City’s website at [http://www.city.ac.uk/study/why-study-at-city/fees-and-finance/scholarships](http://www.city.ac.uk/study/why-study-at-city/fees-and-finance/scholarships).