CITY UNIVERSITY LONDON

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Find out more at:
www.city.ac.uk/engineering-maths/undergraduate

- MEng Civil Engineering
- BEng Civil Engineering
- MEng Civil Engineering with Architecture
- BEng Civil Engineering with Architecture
- MEng Civil Engineering with Surveying
- BEng Civil Engineering with Surveying

CITY UNIVERSITY LONDON

The University for business and the professions

SCHOOL OF ENGINEERING AND MATHEMATICAL SCIENCES

Civil Engineering

UNDERGRADUATE COURSES

Courses

SCHOOL OF ENGINEERING AND MATHEMATICAL SCIENCES

AERONAUTICAL AND AIR TRANSPORT
BEng/MEng Aeronautical Engineering

BEng/MEng Air Transport Engineering

BSc Air Transport Operations with ATPL

BSc Air Transport Operations and Management

CIVIL ENGINEERING

MEng/BEng Civil Engineering

MEng/BEng Civil Engineering with Architecture

MEng/BEng Civil Engineering with Surveying

BIOMEDICAL ENGINEERING
BEng Biomedical Engineering

ELECTRICAL AND ELECTRONIC ENGINEERING
BEng Computer Systems Engineering

BEng/MEng Electrical and Electronic Engineering

BEng Multimedia

BEng Telecommunications

ENGINEERING WITH MANAGEMENT AND ENTREPRENEURSHIP
BEng Engineering with Management and Entrepreneurship

MATHEMATICAL SCIENCE
BSc/MMath Mathematical Science

BSc/MMath Mathematical Science with Computer Science

BSc/MMath Mathematical Science with Finance and Economics

BSc/MMath Mathematical Science with Statistics

BSc/MMath Mathematics and Finance

MECHANICAL, ENERGY AND AUTOMOTIVE
BEng/MEng Automotive and Motorsport Engineering

BEng/MEng Energy Engineering

BEng/MEng Mechanical Engineering

Contents

CONTENTS

Welcome 2
Why study at City? 3
Research 4
A truly international outlook 5
Employability through experience 6
Talking about work placements 7
Discover Civil Engineering at City 9
Civil Engineering: overview of courses 10
Special features of Civil Engineering courses at City 12
Course structure 13
Entry requirements; teaching and assessment; scholarships 14
Meet the Civil Engineering academic team 16
Working in Civil Engineering 18
Student life at City 19
How to apply 20
Map and contacts 21

Welcome to the School of Engineering and Mathematical Sciences

Engineering has been a driver of the progress of mankind for centuries, offering unprecedented benefits to our society in areas such as communications, transport, energy, health and security.

Engineering allows for discovery and innovation in science and medicine to be developed into practical applications that affect all of us and it has created the means to unlock the world's natural resources, from which we all benefit.

Engineering is an engine of wealth creation – allowing business and enterprise to turn research and the innovative ideas that spring from it into jobs and profitability.

It is not surprising that the engineering sector makes up nearly a fifth of the UK economy, employing over 4.5 million people playing a vital role in rebalancing the economy – and many millions more worldwide.

At its heart, engineering is truly international in its scope, its impact and in the people who undertake it – engineering developments shared across the interconnected and intertwined world we live in are at the forefront of saving lives and making people's lives better, contributing enormously to making our modern world what it is. Fundamentally, engineering is about the high-level strategic thinking that underpins innovation in technology – but yet engineers have a real sensitivity to how every project they are involved with impacts on people and our environment.

I am delighted that you are considering studying engineering to become involved in one of the most dynamic, exciting, international and indeed people-focused professions today. A degree in engineering from City University London will equip you for that role and to be a driver of future change in this century and allow you to make your mark on a rapidly changing world. That builds on our long and distinguished tradition, stretching back for nearly 120 years, of training the best engineers at City University London to change the world – we are immensely proud of the way that our graduates have been at the forefront of industry and academia in the UK and worldwide over that time.

Engineers trained at City University London – whatever their first degree discipline – inhabit the real world which throws up a breadth of engineering challenges and which arise from the combination of the disciplines we often simply label as civil, electrical, aeronautical or mechanical engineering. Building a broad understanding and seeking technical mastery of the field is essential for engineers to make their mark on the world. Most especially, a training in engineering is a path to be a leader in tomorrow's complex world – a leader in technical expertise, a leader in strategic thinking, a leader in innovation and a leader in communication. Our role at City University London is to develop and instill those skills in our graduates and fit them for that opportunity.

I challenge you to come on the journey that will take you to become a leader in a field that will change the world in the twenty first century – through equipping yourself with the breadth of skills you will need and that a City University London degree in engineering will give you. I challenge you to make the most of the opportunities that this can offer and to recognise the crucial and transformative role that being an engineer can make to your life.

I look forward to welcoming you as an engineering student of the School of Engineering and Mathematical Sciences at City University London.

Professor
Kenneth Grattan FREng
Dean of the School of Engineering and Mathematical Sciences

Why study at City? About the School of Engineering and Mathematical Sciences

City University London is different. We provide exceptional graduate employment prospects as a result of our commitment to academic excellence, focus on business and the professions and the benefits of our central London location.

TRADITION AND HERITAGE
Engineering and mathematical sciences have been taught at City for over 100 years. We are the pioneers of aeronautics and received the first-ever grant to build an aeroplane.

CENTRAL LONDON LOCATION
We are located in the heart of London, close to the capital's leading institutions. Many of the most renowned engineering companies are located within two miles of the University. Both professionally and personally, you will have the opportunity to benefit from all that London has to offer.

For more information please visit **www.city.ac.uk/visitus**

PROFESSIONAL ACCREDITATION
Most of our courses are accredited by professional bodies.

EXCEPTIONAL EMPLOYMENT PROSPECTS
We are ranked 10th in the UK for both graduate employability *(The Times Good University Guide 2011)* and graduate starting salaries *(The Sunday Times University Guide 2011)*.

INDUSTRY LINKS
The School has professional links with industries across the globe.

ACADEMIC EXCELLENCE AND RESEARCH
Our staff and students are actively involved in pioneering research. In the Government's latest Research Assessment Exercise (RAE), our research in fifteen subject areas was rated by expert panels as amongst the best in the world.

For out more at **www.city.ac.uk/engineering-maths/research**

INTERDISCIPLINARY
The School strongly promotes the interdisciplinary approach to engineering and mathematics. It reflects the requirements of industry and the job market today, in its undergraduate teaching, in the breadth of its postgraduate programmes and especially in its research which recognises that much innovation and excitement lies at the interfaces of traditional disciplines.

EXCELLENT FACILITIES
The School of Engineering and Mathematical Sciences' extensive laboratories enable our students to put theory into practice. Our facilities include flight simulators, wind tunnels, structural testing equipment, an electronics lab, a dedicated Formula Student workshop and a centrifuge that creates forces of up to 200 times gravity.

EXCELLENT BURSARY/SCHOLARSHIP PROVISIONS
We offer a range of merit-based scholarships, bursaries and awards for students who demonstrate exceptional potential. They not only recognise outstanding ability but enable students experiencing financial hardship to study at City. Our scholarships are made possible thanks to companies such as Caterpillar Ltd.

For more information go to **www.city.ac.uk/engineering-maths/scholarships**

Research in the School of Engineering and Mathematical Sciences

Through five research centres, the School of Engineering and Mathematical Sciences aims to tackle the big issues facing society today, from sustainability to national security. Our work is interdisciplinary and often conducted with industry.

The School promotes interdisciplinary and single discipline activities and opens considerable opportunities for the future in both basic and applied research.

Nationally and internationally reputed research in the School features close links with industry, exhibits a strong interdisciplinary character and encompasses comprehensive basic and applied components.

Keenly aware of its central location in London, the School has recognised five areas of significant internal strength and distinction, which provide the main framework for its continued growth and development. The School promotes research excellence in the following research centres:

- Applied Mathematics
- Construction Processes
- Energy and Transport
- Instrumentation and Sensors
- Systems and Control.

These research centres have international reputation in their fields. This structure is seen as a launching basis for future research activities.

For more information please visit **www.city.ac.uk/engineering-maths/research**

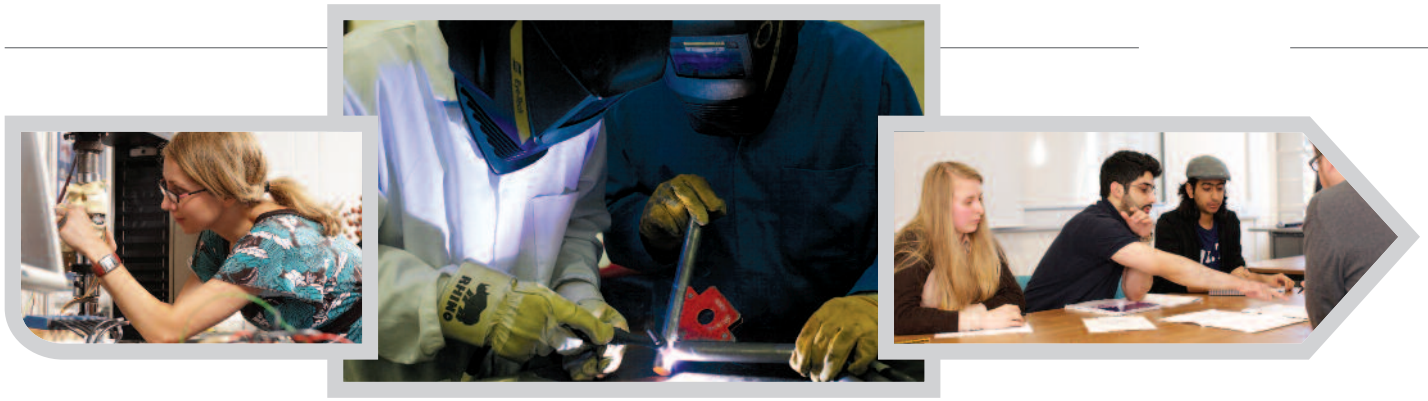
A truly international outlook

We offer an internationally focused learning environment. This is primarily achieved by establishing flagship partnerships in teaching and research with appropriate high profile international organisations in countries and regions of strategic importance.

The School has extensive partnerships with high profile overseas institutions engaging in a wide range of collaborative activities in undergraduate taught programmes, Continuing Professional Development, joint research, student and staff exchanges.

These include working with key partners in China, India, Russia, Korea, USA, Hong Kong and most of the EU countries. Such links provide students with excellent opportunities to take part in international exchange programmes, placement opportunities, joint research and other similar provisions that are becoming vitally important for 21st century graduates operating in an increasingly global employment market.

Employability through experience



INDUSTRIAL PLACEMENTS
Our one year industrial placement scheme enables you to apply the skills and knowledge that you have developed at University to manage real challenges in the workplace.

A year spent in industry is a valuable opportunity to develop your technical skills and business knowledge and it can often lead to sponsorship and future graduate employment.

After the successful completion of your second year of study you can opt to undertake a period of paid work lasting between nine and twelve months. Salaries vary but you would typically be paid between £15,000 and £22,000 pro rata per year while on placement. You will then return to University to complete your studies.

We find that placement students return to University with more maturity, motivation, and a much better understanding of key concepts, having applied them on placement. This often leads to the attainment of a higher class of degree.

FREQUENTLY ASKED QUESTIONS

What support is there for finding a placement?
Our dedicated team of placement specialists, the Professional Liaison Unit (PLU), have extensive experience in helping students to secure placement employment across a range of industries.

The PLU sources exclusive opportunities with a wide range of employers as well as advertising vacancies from the major recruiters. Placements are not guaranteed, you will need to apply directly to companies that interest you.

The unit runs workshops and one-to-one guidance sessions to prepare you for making successful applications and preparing for interviews.

What support is provided while I am on placement?
Your personal tutor will meet with you twice during the year to help you to maximise your professional and academic achievements and ensure that you are undertaking properly supervised work that will contribute towards the experience required for Chartered Engineer status.

"Placement and internship programmes were an important source of fresh talent in 2009. 84.3% of AGR employers converted some of their students or interns into graduate recruits."
The AGR Graduate Recruitment Survey 2010 Summer Review

"Placement students were more likely to be employed six months after graduating and to have higher salaries than the average."
Attainment in higher education Erasmus and placement students. HEFCE November 2009/44

Talking about work placements

Beth Shrubsall
MEng Civil Engineering

"The year out working with Jackson Civil Engineering as a Trainee Site Engineer allowed me to develop as a professional. I was given great amounts of responsibility which developed my time and people management skills as well as my ability to communicate with people at all levels.

I was very well received on site and I learned so much about the industry. The most important thing I have gained is the reassurance that becoming a contracting engineer is the way forward for me. I have been offered a job with the company when I graduate and I anticipate that the next two years at University will be easier for me as I will be able to apply theory back to my experiences."

Eleana Savvidi
MEng Civil Engineering, spent a year on placement with Hardman Structural Engineers

"I work on anything from initial preliminary investigations to site visits, liaising and having meetings with the architects, clients and contractors, working with structural analysis software and producing reinforced concrete drawings. I would recommend doing a placement to everyone."

"A work placement will give you a better chance of standing out when applying for jobs as you will be able to demonstrate necessary experience to prospective employers when you land that all important interview."
Institution of Civil Engineers

Discover Civil Engineering at City

Civil engineers design, construct, manage and improve our environment. They develop our infrastructure and have a profound effect on the way we live through consideration of function, aesthetics, economics and sustainability. Many civil engineers need to interact with architects to produce creative and exciting solutions to infrastructure projects.

William Cartwright
MEng Civil Engineering

"When choosing my course and University, I took advice from a Senior Structural Engineer who told me that City had a good reputation in industry for producing solid graduates. City has strong links with industry and particularly with Alan Baxter and Associates, I obtained my job as a result of these links."

City University London has been teaching students the skills required as an aspiring chartered civil engineers for more than 50 years. Our graduates are sought by the leading UK consultants and contractors and most choose to enter the civil engineering profession. This strong representation at all levels underpins our close links with the industry and with the professional bodies that represent it. Both teaching and research benefit from this extensive industry collaboration.

Industry input into specialist lectures, placement opportunities, design projects and our unique "Open Door to Industry" scheme (see page 12), gives students a proper understanding of the profession they are intending to join.

The School of Engineering and Mathematical Sciences has outstanding facilities such as large structural laboratories and a geotechnical centrifuge. Both facilities allow undergraduates and researchers to test realistic physical models of civil engineering structures and are the focus for much of our industry relevant research.

City offers the following degree courses with or without a placement year in industry:

- **CIVIL ENGINEERING** MEng/BEng
- **CIVIL ENGINEERING WITH ARCHITECTURE** MEng/BEng
- **CIVIL ENGINEERING WITH SURVEYING** MEng/BEng

These degree courses are all accredited as fully satisfying the educational base for a Chartered Engineer (CEng).

In addition these subjects are available as BEng degree courses which are accredited as fully satisfying the educational base for an Incorporated Engineer (IEng) and partially satisfying the educational base for a Chartered Engineer (CEng). A programme of accredited Further Learning, usually a specialist MSc will be required to complete the educational base for CEng.

For further information on accredited courses, please visit **www.jbm.org.uk**

Civil Engineering: overview of courses

MEng DEGREE COURSES

These courses provide advanced theoretical knowledge in the key subjects of analytical methods, structural, geotechnical and hydraulic engineering. Management studies and design are also integral parts of the course from the first year through to the final year. The main focus of the final year is an extensive integrated design project where students work with leading engineers from industry, to research and develop a design solution for a real and current project. The Civil Engineering with Architecture course allows students to focus on the creative aspects of civil engineering by studying design in an architectural context.

The course is taught using a combination of lectures, coursework and projects.

Much of the coursework is related to laboratory experiments. Project work in design and elsewhere is extensively supported by industry to provide insight into the demands of civil engineering practice. Architectural design modules are held at London Metropolitan University and involve studio-based classes and critique sessions.

In the first two years of the course there are residential field trips for geology and surveying.

The courses follow the structure outlined in the diagram on page 13. The first two years are common with the BEng degree courses and students who have obtained an overall mark of 60% or above at the end of year 2 can transfer to the MEng degree course.

All students can opt to spend a year on an industry placement at the end of their second or third year.

YEAR ONE

In year one you will study fundamental engineering principles in topics such as structural mechanics, hydraulics, materials, geology and mathematics. You will be provided with basic skills in surveying, IT and graphics and start finding out about the civil engineering design process and civil engineering in practice. Civil Engineering with Architecture students undertake architectural design and drawing, which uses studio-based learning to develop the skills and techniques required to plan and present your own solution to an architectural design brief.

YEAR TWO

In year two these fundamental principles are applied to the analysis and design of steel and concrete structures, the prediction of the mechanical behaviour of soil and the mechanics of fluids. You will learn more about managing construction projects and surveying and undertake design projects that include the outline design for real life industry schemes. Civil Engineering with Architecture students follow the architecture and context module that uses studio-based learning to support you through the development of an architectural design brief for a significant project.

YEAR THREE

In year three you will study the analysis and design of typical geotechnical and hydraulic structures, numerical analysis techniques used in structural design and construction law, contracts and economics. You will learn advanced analytical methods and undertake an individual investigative project which is research-orientated. You will participate in the intensive design module and an interdisciplinary school wide design project.

YEAR FOUR

In year four the main focus is an extensive integrated design project. You will also be provided with greater theoretical knowledge in geotechnical analysis, structural systems and computational hydraulics and you will undertake extended professional, industrial and business studies. There are four elective modules from which you choose two (students studying Civil Engineering with Architecture and Civil Engineering with Surveying have a more restricted choice).

BEng DEGREE COURSES

The courses follow the structure outlined in the diagram given on page 13. The first two years of these courses are common with the MEng degree courses. In the third year, the course becomes more applied and you will study the analysis and design of typical geotechnical and hydraulic structures, numerical analysis techniques used in structural design and construction law, contracts and economics. You will undertake a challenging individual project and work on an intensive design module featuring real life projects. You will choose two from four elective modules (students studying Civil Engineering with Architecture and Civil Engineering with Surveying have a more restricted choice).

Special features of Civil Engineering courses at City

DESIGN PROJECTS
Students benefit immensely from tackling design problems which are real projects with constraints and challenges that would be encountered in practice. A number of companies are involved in setting these design projects:

- Alan Baxter & Associates
- Clancy Consulting
- Arup
- DP World

They are joined by the following who provide specialist support and advice to students during the projects.

- Geotechnical Consulting Group
- MLM Consulting
- Royal Haskoning
- Skanska
- Rogers Leask
- Edge Structures

MENG INTEGRATED DESIGN PROJECT ON LONDON GATEWAY PORT

Lauren Dawkins,
MEng Civil Engineering

"The most exciting thing about working on this project was the fact that it is something that is going to be constructed in real life. This is really great because I can always go back and see how it was done."

FIELD COURSES
There is a residential field course in geology for engineers at the end of year one and for surveying at the end of year two. In both cases we run sufficient courses each year to ensure that the group size is reasonable and students are able to benefit fully from the teaching and exercises that take place. Students work individually and in small groups on a variety of exercises and projects during the field courses, a format which has proved popular. Following their accreditation visit in 2010 the Joint Board of Moderators (see page 9) highlighted the "success of its small group residential field courses" as a point of good practice.

OPEN DOOR TO INDUSTRY
Launched in 2002, our Open Door to Industry scheme is unique and available only to City Civil Engineering undergraduates. It is a web-based system primarily used to match small groups of students (4 or less per group) to opportunities for site and office visits.

The web site has been running since 2002. 20 companies have been involved in the scheme since its inception and more than 150 different visits have been posted allowing over 600 students to visit sites. When the scheme was created in 2002, *New Civil Engineer* called it "imaginative use of the internet at its best".

Course structure

MEng and BEng courses share the first two years and are different from the third year onwards. In years one and two, Civil Engineering with Architecture students follow different design modules.

MEng CIVIL ENGINEERING

YEAR ONE	YEAR TWO	YEAR THREE	YEAR FOUR
GEOLOGY	SOIL MECHANICS	RESEARCH PROJECT*	GEOTECHNICAL ENGINEERING
SURVEYING	SURVEYING		HYDRAULICS
MATHEMATICS	MATHEMATICS	GEOTECHNICAL ENGINEERING	DESIGN*
HYDRAULICS	HYDRAULICS	ENGINEERING ANALYSIS	
DESIGN*	DESIGN*	HYDRAULICS	
STRUCTURES & MATERIALS		DESIGN	STRUCTURES
CIVIL ENGINEERING PRACTICE	STRUCTURES	STRUCTURES	MANAGEMENT
COMPUTING & COMMUNICATION SKILLS	MANAGEMENT	MANAGEMENT	OPTIONS*

BEng CIVIL ENGINEERING

YEAR ONE	YEAR TWO	YEAR THREE
GEOLOGY	SOIL MECHANICS	MAJOR PROJECT*
SURVEYING	SURVEYING	
MATHEMATICS	MATHEMATICS	GEOTECHNICAL ENGINEERING
HYDRAULICS	HYDRAULICS	HYDRAULICS
DESIGN*	DESIGN*	DESIGN
STRUCTURES & MATERIALS		STRUCTURES
		MANAGEMENT
CIVIL ENGINEERING PRACTICE	STRUCTURES	
COMPUTING & COMMUNICATION SKILLS	MANAGEMENT	OPTIONS*

Differences for Civil Engineering with Architecture:

*Small group studio based design at London Metropolitan University	*Small group studio based design at London Metropolitan University	*Research Project with Architectural content	*Architectural design component in major design exercise and restricted options

*Small group studio based design at London Metropolitan University	*Small group studio based design at London Metropolitan University	*Research Project with Architectural content and restricted options

Entry requirements; teaching and assessment; scholarships

COURSE	UCAS CODE
Civil Engineering MEng	H204 MEng, H205 MEng with professional placement
Civil Engineering with Architecture MEng	H2KC MEng, H2KA MEng with professional placement
Civil Engineering with Surveying MEng	H208 MEng, H209 MEng with professional placement

PROFESSIONAL ACCREDITATION
All degree courses are accredited by the Joint Board of Moderators, which includes the Institution of Civil Engineers and the Institution of Structural Engineers, as fully satisfying the educational base for a Chartered Engineer (CEng).

See **www.jbm.org.uk** for further information.

Our close links with industry ensure courses are relevant and produce graduates required by the profession.

TEACHING
You will be taught by a combination of lectures, coursework and projects, many of which feature contributions from practising engineers. There are also skills -based modules designed to improve your graphical, oral and IT communication skills.

There are two residential field courses in geology and surveying.

ASSESSMENT
Assessment is by means of coursework, project work and examinations held at the end of each year. Years two, three and four contribute to the final degree classification.

SCHOLARSHIPS
All UK and EU undergraduate students starting a Civil Engineering degree course are eligible for merit-based scholarships of up to £1,000 supported by the School of Engineering and Mathematical Sciences. The scholarship may be renewed in subsequent years based on academic performance. Scholarships sponsored by industry and *alumni* are also available.

MEng

Typical offers require one of the following:

A/AS-level:
At least 360 UCAS tariff points. Point scores exclude general studies and key skills. These must include A-level mathematics at grade B. Evidence of ability in a laboratory based subject is preferred.

BTEC:
Typically DDD including D in a module of advanced mathematics.

IB:
32, including mathematics at Higher Level.

14-19 Advanced Diploma:
Engineering at grade A/300; A-level mathematics at grade B/100.

Information on entry requirements from specific Engineering Foundation courses is available on request.

Applicants for Civil Engineering with Architecture need to demonstrate drawing skills normally by participating in a sketching session organised for an Open Day. Numbers are limited to 20 MEng/BEng students per year.

English language requirements:

- IELTS: 6.0 with a minimum of 6.0 in the writing sub-test
- TOEFL: 87 internet-based total
- GCSE: English language grade C.

DURATION
Full-time: Four years or five years including a professional placement.

COURSE	UCAS CODE
Civil Engineering BEng	H200 BEng, H201 BEng with professional placement
Civil Engineering with Architecture BEng	H2K1 BEng, H2KD BEng with professional placement
Civil Engineering with Surveying BEng	H206 BEng, H207 BEng with professional placement

PROFESSIONAL ACCREDITATION
BEng degree courses are accredited by the Joint Board of Moderators, which includes the Institution of Civil Engineers and the Institution of Structural Engineers, as:
1. Fully satisfying the educational base for an incorporated Engineer (IEng)
2. Partially satisfying the educational base for a Chartered Engineer (CEng).
A programme of accredited Further Learning will be required to complete the educational base for CEng.

TEACHING
You will be taught by a combination of lectures, coursework and projects, many of which feature contributions from practising engineers. There are also skills-based modules designed to improve your graphical, oral and IT communication skills.

There are two residential field courses in geology and surveying.

ASSESSMENT
Assessment is by means of coursework, project work and examinations held at the end of each year. Coursework and project work accounts for roughly 30 per cent of the marks for each year. All years contribute to the final degree classification with increasing weight up to the final year.

SCHOLARSHIPS
All UK and EU undergraduate students starting a Civil Engineering degree course are eligible for merit-based scholarships of up to £1,000 supported by the School of Engineering and Mathematical Sciences. The scholarship may be renewed in subsequent years based on academic performance. Scholarships sponsored by industry and *alumni* are also available.

BEng

Typical offers require one of the following:

A/AS-level:
At least 340 UCAS tariff points, including A-level mathematics at grade B. Evidence of ability in a laboratory based subject is preferred. Point scores exclude general studies and key skills.

BTEC:
Typically DDD including D in a module of advanced mathematics.

IB:
30, including mathematics at Higher Level.

14-19 Advanced Diploma:
Engineering at grade B/250; A-level mathematics at grade B/100.

Information on entry requirements from specific Engineering Foundation courses and Access to Engineering courses is available on request.

Applicants need to demonstrate drawing skills. This may be achieved by participating in a sketching session organised for an Open Day. Numbers are limited to 20 MEng/BEng students per year.

English language requirements:

- IELTS: 6.0 with a minimum of 6.0 in the writing sub-test
- TOEFL: 87 internet-based total
- GCSE: English language grade C.

DURATION
Full-time: Three years or four years including a professional placement.

Email enquiries:
semsug@city.ac.uk

Phone enquiries:
+44 (0) 20 7040 6050

Find out more at:
www.city.ac.uk/engineering-maths/undergraduate

NEXT STEPS

Open Days:
Visit www.city.ac.uk/engineering-maths/undergraduate/opendays

How to apply:
Refer to information on page 20.

Meet the Civil Engineering academic team

PROFESSOR SARAH STALLEBRASS
ASSISTANT DEAN FOR CIVIL ENGINEERING
Professor Stallebrass is an expert in the effects of foundations, excavations and construction processes on soil and predicting how the built environment causes the ground to move. She has been the chairman of the British Geotechnical Association – a professional body of around 1,300 members – and is a Fellow of the Institution of Civil Engineers. As Assistant Dean for Civil Engineering, she manages and develops City's undergraduate Civil Engineering courses. She also lectures on ground engineering, leads design projects and is the MEng course tutor.

DR TATYANA MICIC
SENIOR LECTURER IN STRUCTURAL ENGINEERING
Dr Micic studies the field of reliability theory and assessing the safety risks associated with structures. For several years she was a consultant providing specialist advice to the Highways Agency on bridge design. She is the tutor for City's Civil Engineering with Architecture courses, lectures in structural engineering and contributes to design modules for Civil Engineering undergraduates.

DR ANDREW MCNAMARA
SENIOR LECTURER IN CIVIL ENGINEERING
Dr McNamara is a practicing engineer and specialist in construction process-related problems. He has been involved in many of the landmark commercial buildings in the City of London such as the 'Gherkin' and Heron Tower and holds a patent for an innovative sustainable foundation backed by the Carbon Trust. Dr McNamara leads design modules and is responsible for the format of management modules. He lectures on these and topics related to ground engineering.

PROFESSOR R NEIL TAYLOR
PROFESSOR OF GEOTECHNICAL ENGINEERING
Professor Taylor established City's geotechnical centrifuge facility in the early 1990s. He uses it in internationally-recognised research to model and control ground movement caused by infrastructure development, such as tunnelling and excavation. He is the Year two tutor and contributes to the teaching of topics related to ground engineering, engineering analysis and design. He also arranges a residential field course for the Geology for Engineers module.

DR CEDRIC D'MELLO
SENIOR LECTURER IN STRUCTURAL ENGINEERING
Dr D'Mello carries out large-scale testing of structures using City's extensive laboratories. His research covers a range of topics – both experimental and theoretical – relating to onshore and offshore structures, composite construction and the affects of fatigue. He lectures on structural engineering and design, while providing leadership on teaching and learning processes across the School of Engineering and Mathematical Sciences in his role as Associate Dean for Education.

SCHOOL OF ENGINEERING AND MATHEMATICAL SCIENCES: **CIVIL ENGINEERING**

PROFESSOR QINGWEI MA
PROFESSOR OF HYDRODYNAMICS
Professor Ma researches fluid flow and water waves and their interaction with marine and coastal structures such as oil rigs, offshore wind turbines, ships and breakwaters. He has developed world-leading methods to simulate steep and violent waves, such as tsunamis. Professor Ma is currently the Chair of the International Hydrodynamic Committee of the International Society of Offshore and Polar Engineers. He lectures on hydraulic engineering and fluid mechanics and is the Year three tutor, managing the major individual projects that students undertake.

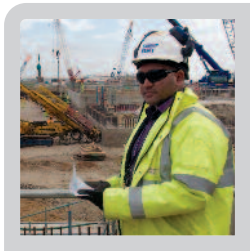
DR CHRISTIANA DYMIOTIS-WELLINGTON
ADMISSIONS TUTOR
Dr Dymiotis-Wellington's research lies in the areas of earthquake engineering, structural reliability and sustainable construction. Her work on these topics has led to the publication of numerous papers in international journals and she has also contributed to major international conferences. She lectures on structural engineering and leads the sustainability design project. Dr Dymiotis-Wellington is also the admissions tutor for all civil engineering undergraduate courses.

DR BRETT MCKINLEY
SENIOR LECTURER IN STRUCTURAL ENGINEERING
Dr McKinley's research activity includes testing and developing structural elements in City's heavy structures laboratory, including work for British Steel and The Steel Construction Institute. He is also interested in using sensors to monitor the integrity of bridges made from steel, concrete and polymer composites. Dr McKinley is a consultant to Pell Frischmann – one of the UK's leading firms of consulting engineers – and contributes to modules on structural engineering and design.

DR AGATHOKLIS GIARALIS
COURSE DIRECTOR IN CONSTRUCTION MANAGEMENT
Dr Giaralis' expertise lies in the fields of structural dynamics and earthquake engineering. His work includes the generation of artificial earthquake signals and the modification of recorded ones to be used in the design of earthquake-resistant structures. He also examines how buildings, bridges and offshore platforms respond to the action of wind waves and earthquakes and the use of devices such as dampers to control their vibration. He teaches on various structural engineering modules.

DR RICHARD GOODEY
LECTURER IN CIVIL ENGINEERING
Dr Goodey's research involves the modelling of geotechnical problems using City's geotechnical centrifuge facility. His focus is on foundations and other underground structures – how they interact with each other and whether new construction will adversely affect existing structures. He previously worked for the Geotechnical Consulting Group and is still retained as a consultant. Dr Goodey is a Year one tutor and lectures on modules related to the behaviour of materials and soil mechanics. He also supports students intending to take professional placements.

Working in Civil Engineering



When you graduate with an engineering degree from City University London you will find yourself in demand from organisations ranging from corporate industry giants to dynamic start-up companies.

Employers place great value on the professional education and quality of our graduates, recognising their intellectual skills, professionalism, industry experience and their ability to relate theory to practical problems.

Our graduates have gone on to work as civil engineers for many of the leading consulting and contracting organisations in the UK and around the world. Recent graduates have worked on the Olympic Park and Village, the Crossrail project and landmark buildings in the City of London, such as Heron Tower. They have joined employers such as Aecom, Alan Baxter Associates, Clancy Consulting, Balfour Beatty Engineering, Jacobs and Skanska.

City University London ranks tenth in the UK for employability, according to *The Times Good University Guide 2011*.

STUDENT TESTIMONIALS

Nita Gorasia

Working for Bovis Lend Lease on the Athletes Village for the 2012 Olympics

"I am the Project Manager for permanent roads at the Athletes Village site, looking after permanent roads and utilities. I am involved in the tendering process and undertake design reviews with the designers. I am also involved in sustainability issues such as fill management and dealing with contaminated land issues. I am learning a lot on the job because as a contractor on this type of project you see a bigger range of activities than in my previous job as a consultant."

Prakash Senghani

Graduate MEng Civil Engineering

"Since graduating, I have worked for Balfour Beatty as part of the tendering team for multi-million pound London Underground Station upgrades and currently I am working at Heathrow Airport where we are building a brand new satellite terminal."

Prakash was awarded the Worshipful Company of Engineers Cadzow Smith Award 2009 – for excellence on an undergraduate engineering course.

Student life at City

CENTRAL LOCATION

We are located in the heart of London, close to the capital's leading financial, legal, media and medical institutions. You can take advantage of London's famous cultural, sporting and social opportunities.

STUDENT CENTRE

Our Student Centre offers practical help with your finances, learning, health and housing. They can also help with advice on your course, career and University facilities.

Visit **www.city.ac.uk/studentcentre** for more information

SPORTS ACTIVITIES

We support a range of sporting activities including badminton, basketball, cricket, fencing, football, hockey, netball, rugby, squash and table tennis.

ACCOMMODATION

Whether you want to live in halls of residence or private rented accommodation, our Student Centres housing advisers can help.

For further details please visit **www.city.ac.uk/accommodation**

LIBRARY SERVICES

The main University library occupies five floors in the Northampton Square building. Our library stock is more than 280,000 volumes and you can borrow up to 15 books for as long as 3 weeks.

Please see **www.city.ac.uk/library**

STATE-OF-THE-ART FACILITIES

We recently undertook a multi-million pound project to refit all our lecture theatres with state-of-the-art audio-visual equipment and provide over 1,000 Windows PCs, 200 Apple Macs and 57 Linux workstations.

CAREERS SERVICES

Our professional networks help to build your skills and gain industry insights. You can discuss your career plans in one-to-one appointments and explore our extensive careers resources including computer-aided guidance packages and aptitude testing systems. In the autumn and spring terms major employers visit the University to give presentations and run skills sessions.

Find out more at **www.city.ac.uk/careers**

ALUMNI

When you embark on your course with us, you begin a lifelong association with both the University and its wider community of former students.

Find more information at **www.city.ac.uk/alumni**

A GREAT STUDENT EXPERIENCE

We seek to provide high quality equipment and facilities to enhance your learning experience. The Students' Union organises a wide range of social events to keep you entertained and we have over 50 clubs and societies which cater for a broad range of interests. If that isn't enough the London nightlife is famous, there are many venues to visit, some of which are discounted or free for students.

How to apply to City

Applications for degree courses *must* be made through UCAS.

You can apply through your school or college using the UCAS Apply system at **www.ucas.com/students/apply/**

WHEN TO APPLY

Applications for entry September 2012 should arrive between 1 September 2011 and 15 January 2012.

When your application has been acknowledged by UCAS you will receive a personal identification number so that you can access your records via 'Track' at **www.ucas.com/students/track/** on the UCAS website.

ENQUIRIES

If you have any questions about the admissions process please contact the Undergraduate Admissions Office:

T: +44 (0) 20 7040 6050
E: semsug@city.ac.uk

FURTHER INFORMATION

- You can apply for up to five universities
- Take care when entering your course code
- UCAS has an 'invisibility choices' policy, meaning each university can only see their entry and not those of other universities you have chosen
- Submit your completed application to UCAS with a £21 application fee
- If you only wish to apply for City you can make a single choice application at a reduced rate of £11
- The University code for City University London is C60

UCAS CONTACT DETAILS

Universities and Colleges Admissions Service (UCAS)
www.ucas.com

Callers in the UK
0871 468 0468

Callers outside the UK
+44 (0) 871 468 0468

INTERNATIONAL STUDENTS

We have put together some practical information to help you when planning your arrival to the UK and City University London please visit **www.city.ac.uk/international/international-students**

SCHOLARSHIPS BURSARIES AND AWARDS

City University London has a range of scholarships and prizes available for undergraduate students. Some of these are generously funded by charitable foundations, former students, and other bodies and can be applied for each academic year.

Visit **www.city.ac.uk/engineering-maths/scholarships** for more information.

FINANCIAL SUPPORT

There are a range of options available to you to help you cover your living costs while you study at City University London. For information on Government support as well as other potential sources of funding please visit **www.city.ac.uk/study**

Map and contacts

CONTACTING US

You can contact our Undergraduate Admissions team as follows:

UNDERGRADUATE ADMISSIONS TEAM

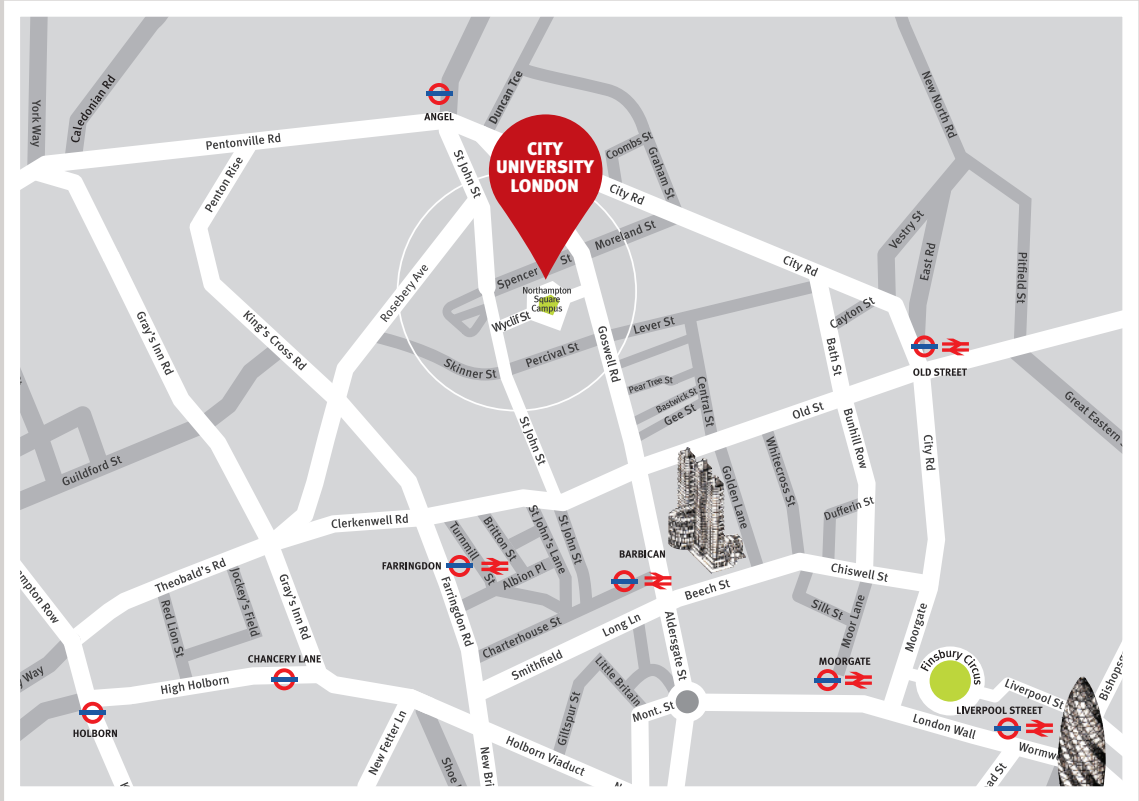
Programmes Office
School of Engineering and Mathematical Sciences
City University London
Northampton Square
London EC1V 0HB
United Kingdom

T: +44 (0) 20 7040 6050
E: semsug@city.ac.uk

If you are enquiring about the progress of an application you have made through UCAS, please remember to provide your UCAS application number.

ADDITIONAL INFORMATION

You can find more information on our undergraduate web page at **www.city.ac.uk/engineering-maths/undergraduate**



DISCLAIMER

The information contained in this brochure is correct at the time of going to press (September 2011). The University reserves the right, arising from unforeseen events or circumstances beyond our control, to add to or remove courses, and to make changes in regulations, syllabuses, course options, timetables, modules and fees etc, without prior notice. Complaints concerning the accuracy of information provided by the University in this brochure and in related publications should be made to the Academic Registrar. Any persons who feel their complaints have not been dealt with satisfactorily may write to the Quality Assurance Agency for Higher Education.

General information about the University including fees, general entry requirements, accommodation and social and welfare services, is given in the undergraduate prospectus, which can be viewed or ordered online on the University's website **www.city.ac.uk/study.**

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www.pslondon.co.uk