BUILT ENVIRONMENT: ENVIRONMENTAL DESIGN AND ENGINEERING MSc / 2019/20 ENTRY

www.ucl.ac.uk/graduate/
This leading-edge programme, established before many in the built environment field were aware of greenhouse gases, has produced a stream of high-achieving graduates sought after by the biggest names in building design and the construction industry. We attract students from across the globe eager to find positions worldwide or to take relevant, cutting-edge thinking about sustainable building design back to their own part of the world.

Degree summary

The programme aims to develop students' knowledge and expertise in problem solving in the area of the built environment, and provide a framework for developing innovative thinking in the design and operation of buildings, placing associated environmental issues in a global, national and personal context.

The UCL Bartlett is the UK's largest multidisciplinary Faculty of the Built Environment, bringing together scientific and professional specialisms required to research, understand, design, construct and operate the buildings and urban environments of the future.

Located in London, the UCL Bartlett is at the heart of a large cluster of creative architects and engineering firms, next to the UK's seat of government and finance and has all the resources of a world city to hand. It offers unrivalled networking opportunities, with alumni in the majority of the major firms in London, who often give lectures to students and appear at networking events.

The multidisciplinary faculty contains the UCL Bartlett School of Architecture, which has been ranked first for Architecture in the UK for many years, and is characterised by a high level of invention and creativity. The school is internationally known as a centre for innovative design.

The programme is delivered through a combination of interactive seminars, individual and group tutorials, site visits and a residential field trip. Assessment is through unseen examination, coursework, and the built environment report. Joint coursework, including two major low-energy architectural design projects, is carried out by students in multidisciplinary teams.

Accreditation

This course has been accredited as suitable further learning to meet the academic requirement for Chartered Engineers (CEng) by the Chartered Institution of Building Services Engineers (CIBSE) and Energy Institute.

Degree structure

Mode: Full-time: 1 year; Flexible: 2-5 years
Location: London, Hackney Wick (Here East) and London, Bloomsbury
Full-time students study for 37.5 hours per week during term time. Typically, lectures and seminars occur on two days per week. Flexible students normally attend half this amount.

Students undertake modules to the value of 180 credits. The programme consists of six core modules (90 credits), two optional modules (30 credits) and a built environment dissertation (60 credits).

A Postgraduate Diploma (120 credits, full-time nine months) is offered.

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

COMPULSORY MODULES
- The Built Environment: The Energy Context
- Health, Comfort and Wellbeing in Buildings
- Building Solar Design
- Natural and Mechanical Ventilation of Buildings
- Efficient Building Service Systems
- Methods of Environmental Analysis

OPTIONAL MODULES
- Advanced Building Simulation
- Low Energy Housing Retrofit
- Post Occupancy Evaluation of Buildings
- Multi-objective Design Optimisation
- Introduction to System Dynamics Modelling
- Indoor Air Quality in Buildings
- Building Acoustics
- Light, Lighting and Vision in Buildings
- Industrial Symbiosis
- Smart Energy Systems Implementation
- Energy Systems Modelling

The availability of all optional modules is subject to demand.

DISSERTATION/REPORT
- All MSc students submit a 10,000-word report on a topic related to the main themes of the programme. The topic can be chosen to enhance career development or for its inherent interest.

Students will have the opportunity to participate in field trips and site visits including a residential trip to the Centre for Alternative Technology in North Wales.

Travel, accommodation and activities for the residential field visit is free. Travel costs for site visits or fieldwork within the London area (zones 1-6) are covered by public transport is covered by students. Otherwise, travel is covered by the programme.
Your career

Most students who complete the programme move into, or continue in, a building-related profession, such as architecture, low-energy design consultancy, or building services engineering. As the awareness of global environmental issues increases, the demand for people with expertise in the health and energy performance of buildings is expanding rapidly. A number of students have used the MSc as a foundation for MPhil/PhD research.

First destinations of graduates include: Neapoli, XC02, Max Fordham, Arup, WSP, Atkins, Buro Happold, PassivSystems, EnergyExcel, local authorities, Foster and Partners, Rogers Stirk Harbour and Partners.

Employability

This programme is very "close to market" with many students finding jobs even before their studies have finished: the skills students gain are those that employers need. For example, we teach several tools used by commercial companies including the thermal analysis software IESVE.

Students sometimes take placement positions while working on their dissertations; in recent years this has included overseas options, for example, with Neapoli in Malaysia. Graduates often contact us through our strong alumni network to recruit for new positions, listening to their feedback ensures we keep the programme relevant to industry needs.
**Entry requirements**

The normal minimum qualifications are a second-class Bachelor's degree from a UK university or an overseas qualification of an equivalent standard.

For applicants without a first degree or full professional membership, but with relevant and substantial work experience in the field, a special qualifying examination may be set. Details of this route can be obtained from the Bartlett's Graduate Faculty Office.

**English language proficiency level**

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at: www.ucl.ac.uk/graduate/english-requirements

**Your application**

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:

- why you want to study Environmental Design and Engineering at graduate level
- why you want to study Environmental Design and Engineering at UCL
- what particularly attracts you to the chosen programme
- how your academic and professional background meets the demands of this challenging programme
- where you would like to go professionally with your degree

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. Further information can be found at: www.ucl.ac.uk/prospective-students/graduate/taught/application.

**FEES AND FUNDING 2019/20 ENTRY**

- **UK**: £13,750 (FT)
- **EU**: £13,750 (FT)
- **Overseas**: £24,450 (FT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Students website.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master's fee taken in an academic session.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

**APPLICATION DEADLINE**

Full-time: 28 June 2019

Flexible/Modular: 30 August 2019

Details on how to apply are available on the website at: www.ucl.ac.uk/graduate/apply

**CONTACT**

Programme Administrator

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**EU referendum**

For up-to-date information relating to specific key questions following the UK's decision to leave the EU, please refer to www.ucl.ac.uk/brexit