The Geospatial Sciences (Building Information Modelling) MSc teaches students the theory, tools and techniques for working with geospatial data, from acquisition to processing to analysis. Students have the opportunity to engage and work with academics and industrial partners on cutting edge research through seminars and a dissertation.

Degree summary

The specialist Building Information Modelling (BIM) programme will educate students in the geometric and semantic aspects of BIM and the integrated management of geospatial and BIM-related data. This includes principles of surveying, 3D reality capture, a general overview of technologies related to mapping sciences, geo-information science and 3D geometric modelling.

UCL Civil, Environmental & Geomatic Engineering is an energetic and exciting multidisciplinary department with a tradition of excellence in teaching and research, situated in the heart of London. This exciting new MSc programme continues the department’s long history of excellence in postgraduate geomatics education.

Students studying the Geospatial Sciences (Building Information Modelling) MSc will benefit from the department’s excellent research and industry links, including attending our industrial and research seminar series, and carrying out a research project with one of our many industrial partners.

The programme is delivered through a combination of lectures, computer sessions, seminars and field classes. Assessment is via coursework (individual and group), presentations, written examinations and the dissertation.

Accreditation

The Geospatial Sciences (Building Information Modelling) MSc is accredited by RICS. RICS works in partnership with universities to ensure that their accredited degree courses are relevant to industry. This means that when you study on an accredited degree this will be recognised by employers as the benchmark of quality.

Degree structure

Mode: Full-time: 1 year; Part-time: 2 years
Location: London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of seven compulsory modules (105 credits) and one optional module (15 credits). All students carry out a dissertation (60 credits).

A Postgraduate Diploma consisting of seven compulsory modules (105 credits) and one optional module (15 credits) is also available.

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

- Students will take the following compulsory modules (term indicated in brackets):
  - Geospatial Science (T1)
  - Geospatial Programming (T1)
  - Engineering Surveying (T1)
  - Data Analysis (T1)
  - Applied BIM (T2)
  - Reality Capture & Precision 3D Scanning (T2)
  - Sensors & Location (T2)

OPTIONAL MODULES

- Students may take the following optional module in term two:
  - Web & Mobile Apps & Programming

  This module may be exchanged for an elective at the discretion of the programme director.

DISSERTATION/REPORT

All students undertake an independent research project which culminates in a dissertation of 10,000–12,000 words and a poster presentation (60 credits).

Some modules may contain an element of fieldwork using specialist equipment in an applied setting.

There is no additional cost for fieldwork.
Your career

Students graduating with a degree in Geospatial Sciences (Building Information Modelling) will be equipped for a diverse range of roles, including BIM or surveying manager, geospatial data scientist, geospatial software developer and consultant. Graduates go on to work for a variety of organisations including major infrastructure projects, engineering consultancies, geospatial software companies and national mapping agencies. Our students establish strong links with industry through the industrial seminar series and industrial research projects. Additionally, many graduates from our programmes go on to PhD research at UCL or elsewhere.

Employability

Students will gain a range of technical skills in geospatial science that are highly valued by employers, including the use of specialist software for Surveying, Reality Capture, BIM and GIS (e.g. Cyclone, PhotoScan, Revit, QGIS, FME); programming, web and software development (e.g. Python, R, MATLAB); geospatial data processing and management; geospatial data visualisation and analysis.
Entry requirements

A minimum of an upper second-class UK Bachelor's degree in a relevant discipline (such as engineering, architecture, geography, urban planning, mathematics, surveying, marine and earth sciences, computer science) from a UK university or an overseas qualification of an equivalent standard. Normally only candidates with either a first or upper second-class degree will be accepted, although applicants with a lower second-class degree supported by extensive work experience will also be considered.

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 Geospatial Sciences (Building Information Modelling) at graduate level
- why you want to study Geospatial Sciences (Building Information Modelling) 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: £12,750 (FT), £6,375 (PT)
- EU: £12,750 (FT), £6,375 (PT)
- Overseas: £26,660 (FT), £13,340 (PT)

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.

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

APPLICATION DEADLINE

All applicants: 26 July 2019

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

CONTACT

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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