GEOSPATIAL SCIENCES
(HYDROGRAPHIC SURVEYING) MSc /
2019/20 ENTRY

www.ucl.ac.uk/graduate/
The MSc Geospatial Sciences (Hydrographic Surveying) teaches students the theory, tools and techniques for working with geospatial data in the marine environment, from acquisition to processing and 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 programme educates students in the marine geospatial sciences, equipping them for careers in this rapidly developing subject. Students will gain broad knowledge of the means of acquiring, processing, and analysing spatial data in the marine context – using vessel-based acoustic techniques, satellite positioning, AUVs, and much more.

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 is a further development of the department's history of teaching Hydrographic Surveying.

Students studying Geospatial Sciences: Hydrographic Surveying 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 run as a partnership with the Port of London Authority, including the use of their fully equipped survey vessels and tuition from their experienced surveyors. Students also have the opportunity to study nautical science and basic seamanship, equipping them for careers as hydrographic surveyors as soon as they graduate.

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 (Hydrographic Surveying) MSc is a Category A IHO/FIG/ICA accredited course. Category A is the highest level of international recognition for a Hydrographic Surveying course. The course is also 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.

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**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 eight compulsory modules (120 credits). All students carry out a dissertation (60 credits).

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

- Geospatial Science
- Geospatial Programming
- Data Analysis
- Engineering Surveying
- Reality Capture & Precision 3D Sensing
- Sensors & Location
- Hydrographic Applications
- Applied Field Project

### OPTIONAL MODULES

**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 contain an element of fieldwork using specialist equipment in an applied setting.

Fieldwork costs are an estimated maximum £1300, including accommodation and travel.
Your career

Students graduating with a degree in Geospatial Sciences (Hydrographic Surveying) MSc will be equipped for a diverse range of roles, with organisations such as offshore and inshore survey companies, national hydrographic departments, equipment manufacturers and port authorities. 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 and nautical science that are highly valued by employers, including the use of specialist software for Hydrography and GIS (ArcMap, QGIS, Hypack); programming (Python); geospatial data acquisition, processing and management; geospatial data visualisation and analysis.
Entry requirements

A minimum of an upper second-class Bachelor’s degree in a relevant discipline (such as engineering, architecture, geography, urban planning, mathematics, surveying, marine & Earth sciences, computer science) from a UK university or an overseas qualification of an equivalent standard. Normally, however, 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 relevant 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 (Hydrographic Surveying) at graduate level
- why you want to study Geospatial Sciences (Hydrographic Surveying) 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