HYDROGRAPHIC SURVEYING
MSc /
2016/17 ENTRY

www.ucl.ac.uk/graduate/
Hydrographic Surveying MSc

This MSc is designed to give students a broad range of experience in marine survey practice, including the acquisition and processing of hydrographic data, positioning, and charting. The programme is offered jointly with the Port of London Authority, which contributes through teaching and practical work aboard its survey vessels.

Degree summary

Students develop an advanced knowledge of a broad range of topics, including error theory, quality control, GNSS, reference systems, electronic charting, and international boundaries. Particular emphasis is placed on understanding the principles that underlie the analysis and interpretation of survey data, in particular those issues that affect its quality.

Students have the advantages of studying in a multi-faculty college with a long tradition of excellence, situated at the heart of one of the world's greatest cities. They also benefit from the training and facilities contributed by the surveyors at the Port of London Authority, one of the most advanced port hydrography departments in the world.

The Hydrographic Surveying MSc is recognised as a "Category A" programme by the IHO/FIG/ICA board. This is the highest level of accreditation offered, and is an internationally recognised qualification that is increasingly demanded by employers worldwide. It is also accredited by the RICS.

The programme is delivered through lectures, seminars, practicals, tutorials, and field courses including periods on Port of London Survey vessels. It is supported by a series of external speakers from industry and visits to industrial and government establishments. Assessment is through coursework, unseen written examinations, oral presentation, and the dissertation.

Degree structure

Mode: Full-time: Full-time: 1 year

Students undertake modules to the value of 180 credits. The programme consists of four core modules in term one, four specialist modules in term two, and a research project.

A Postgraduate Diploma (120 credits) is offered.

COMPULSORY MODULES

- Mapping Science
- GIS Principles and Technology
- Principles & Practice of Surveying
- Data Analysis

SPECIALIST MODULES

- Hydrographic Applications
- Management/Group Project
- Ocean and Coastal Zone Management
- Positioning

DISSERTATION/REPORT

Students on the MSc programme embark on an individual project after the examinations in May, which lasts until the end of the programme in September. The department enjoys strong links with industry, and projects are often carried out in collaboration with organisations outside the college.
Your career

This programme offers exceptionally good career prospects. Many of our graduates go on to work for offshore surveying companies including Fugro, Gardline, Schlumberger, Horizon and Stolt Offshore (now Aergy). Others prefer shore-based jobs, or those that offer a mixture of time in the office and aboard survey vessels - examples include GEMS Survey and Netsurvey, or port authorities such as the Port of London or Singapore and Hong Kong. Other careers include work for equipment manufacturers (Sonardyne), cable companies (Alcatel), national hydrographic offices (UKHO) or research careers (UCL).

Employability

Our graduates benefit from strong contacts with professional surveyors at the Port of London Authority and from carrying out work aboard their fully equipped survey vessels. They have particular strengths in data analysis. GNSS (GPS, etc), and co-ordinate reference systems. Being based in a geomatics department, they gain a broad view of the subject area and thus have wider employment opportunities.
Entry requirements

The minimum entry requirements are an upper second-class Bachelor's degree in a cognate subject or related discipline, including geography, geology, civil engineering, mathematics, physics, marine biology or marine studies, from a UK university or the equivalent from an overseas institution. Extensive work experience covering related areas will be considered.

As preparation for the MSc if you are offered a place, you will be expected to revise your knowledge of mathematics in certain topics such as trigonometry, geometry and differential calculus if you have not studied these for some time. The most comprehensive text to use would be Engineering Mathematics by K.A. Stroud (6th Edition), but many other text books covering an equivalent level of mathematics are also available.

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 Hydrographic Surveying at graduate level
// why you want to study Hydrographic Surveying at UCL
// what particularly attracts you to this programme
// how your personal, academic and professional background meets the demands of a challenging programme
// how this degree fits to your career aspirations

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.

FEES AND FUNDING 2016/17 ENTRY

// UK: £11,090 (FT), £5,725 (PT)
// EU: £11,090 (FT), £5,725 (PT)
// Overseas: £23,440 (FT), £N/A (PT)

International students may wish to approach their country's Ministry of Education to see if there are any grants for international study.

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

APPLICATION DEADLINE

All applicants: 29 July 2016

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

CONTACT

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EU referendum