SPACE SCIENCE AND ENGINEERING: SPACE SCIENCE MSc / 2019/20 ENTRY

www.ucl.ac.uk/graduate/
This MSc effectively transfers to students the knowledge and expertise gained by UCL space scientists over four decades, and is taught by world-recognised researchers in the field. The programme aims to provide a broad understanding of all aspects of space science together with specialised training in research methods, directly applicable to a career in academia, the public and private sectors.

### Degree summary

The Space Science pathway is focussed on scientific research applications of space technology; it aims to equip participants with a sound knowledge of the physical principles essential to sustain careers in space research and related fields. Students develop a thorough understanding of the fundamentals of: a range of space science fields; spacecraft, space science instrumentation, the space environment, space operations and space project management.

- UCL’s Space & Climate Physics Department, located at the Mullard Space Science Laboratory, is a world-leading research organisation and is the largest university space science group in the UK.
- It offers a unique environment at the forefront of space science research, where scientists and research students work alongside top engineers building and testing instruments for space, as well as studying the data from these and other spaceborne and ground-based instruments.
- The close contact that the laboratory enjoys with space agencies such as ESA and NASA and with industrial research teams encourages the development of transferable skills which enhance job prospects in academic circles and beyond.

The programme is delivered through a combination of lectures, tutorials, team-based coursework exercises, presentations and tutorials. Student performance is assessed through unseen written examination, coursework, and the individual and group projects.

### Degree structure

**Mode:** Full-time: 1 year  
**Location:** London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of four core modules (60 credits), three optional modules (45 credits), a group project (15 credits), and a research project (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
- Space Data Systems and Processing
- Space Instrumentation and Applications
- Space Science, Environment and Satellite Missions
- Space Systems Engineering
- Group Project

#### OPTIONAL MODULES
- Planetary Atmospheres
- Solar Physics
- High Energy Astrophysics
- Space Plasma and Magnetospheric Physics
- Principles and Practice of Remote Sensing
- Global Monitoring and Security

#### DISSERTATION/REPORT
- All MSc students undertake an independent research project, which normally involves attachment to a research group, and culminates in a report of 10,000–12,000 words.
Your career

The programme aims to prepare students for further research degrees and/or careers in space research or the space industry.
**Entry requirements**

A minimum of a second-class Bachelor's degree in a relevant discipline from a UK university, or an overseas qualification of an equivalent standard.

**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: Good.

Information about the evidence required, acceptable qualifications and test providers is provided at: [www.ucl.ac.uk/graduate/english-requirements](http://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 for a Master's degree in Space Science and Engineering, and particularly on which Pathway (Space Science or Space Technology) you intend to enrol, and why
- why you want to enter a programme of study at UCL
- what particularly attracts you to this programme, how have you heard of it and what do you want to get from it
- how your academic and professional background meets the entry requirements and the demands of this programme, considering the topics that are taught in it
- where you would like to go professionally with your degree, i.e. which kind of career you intend to pursue

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, and how prepared you are to face the challenges it poses (e.g. large project component, individual and in a team, and taught advanced topics).

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](http://www.ucl.ac.uk/prospective-students/graduate/taught/application).

**FEES AND FUNDING 2019/20 ENTRY**

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<th>UK: £11,060 (FT)</th>
<th>EU: £11,060 (FT)</th>
<th>Overseas: £30,140 (FT)</th>
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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.

STFC and NERC studentships may be available.

Full details of funding opportunities can be found on the UCL Scholarships website: [www.ucl.ac.uk/scholarships](http://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](http://www.ucl.ac.uk/graduate/apply)

**CONTACT**

Programme Administrator

Email: edu@mssl.ucl.ac.uk

**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](http://www.ucl.ac.uk/brexit)