COMPUTER SCIENCE MSc / 2017/18 ENTRY

www.ucl.ac.uk/graduate/compsci
The Computer Science MSc provides a balance between computer science theory and practical software engineering skills, including teamwork for industrial or research clients. Graduates find employment in the IT industry, or complement their first degree subject with computer science knowledge, leading to interdisciplinary industrial positions and PhD research.

Degree summary

You will learn fundamental aspects on how computers work by taking modules in computer architecture, operating systems, compilers, data structures and algorithms. You will also gain practical knowledge in areas such as human-computer interaction, App design, databases and software engineering. You will develop programming skills in modern languages, such as object-oriented Java for Android development.

Team working, project planning and communication skills are developed by working in small groups developing software for real industrial and research clients. Optional modules allow specialisation in subjects such as functional programming, computer music, entrepreneurship and artificial intelligence.

UCL Computer Science is recognised as a world leader in teaching and research, and was one of the top-rated departments in the country according to the UK government’s recent Research Excellence Framework.

Our Master’s programmes have some of the highest employment rates and starting salaries, with graduates entering a wide variety of industries from entertainment to finance.

We take an experimental approach to our subject, enjoy the challenge and opportunity of entrepreneurial partnerships and place a high value on our extensive range of industrial collaborations.

The programme is delivered through a combination of lectures and tutorials. Lectures are often supported by laboratory work with help from demonstrators. Student performance is assessed by unseen written examinations, coursework and a substantial individual project.

Degree structure

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

Students undertake modules to the value of 180 credits. The programme consists of five core modules (75 credits), three optional modules (45 credits) and a research project (60 credits).

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CORE MODULES
- Algorithmics (15 credits)
- Architecture and Hardware (15 credits)
- Design (15 credits)
- Programming (15 credits)
- Systems Infrastructure (15 credits)

OPTIONAL MODULES
- Students must choose a minimum of 15 and a maximum of 45 credits from Group One options. For the remaining credits, students can choose up to 30 credits from Group Two options and up to 15 credits from Electives.

Group One Options (15 to 45 credits)
- Database Systems (15 credits)
- Entrepreneurship: Theory and Practice (15 credits)
- Functional Programming (15 credits)
- Interaction Design (15 credits)
- Software Engineering (15 credits)
- Group Two Options (up to 30 credits)
- Affective Interaction (15 credits)
- Artificial Intelligence and Neural Computing (15 credits)
- Project Management (15 credits)

Please note: the availability and delivery of modules may vary, based on your selected options.

A list of acceptable elective modules is available on the Departmental page.

DISSERTATION/REPORT

All students undertake an independent computer-based science project which culminates in a dissertation in the form of a project report.
Your career

Graduates from UCL are keenly sought by the world’s leading organisations, and many progress in their careers to secure senior and influential positions. UCL Computer Science graduates are particularly valued as a result of the department’s strong international reputation, strong links with industry, and ideal location close to the City of London. Our graduates secure careers in a wide variety of organisations; for example with global IT consultancies, as IT analysts with City banks, or as IT specialists within manufacturing industries.

Employability

This degree opens up many different career routes. Recent graduates have been employed by some of the world’s leading IT companies such as Accenture, Barclays Capital and Credit Suisse. The entrepreneurial spirit is ignited in other students and they may either start their own companies or join the excitement of dynamic start-ups. Other graduates have gone on to PhD study to conduct cutting-edge research in areas that interest them.
Entry requirements

A minimum of an upper second-class UK Bachelor's degree in a subject other than computer science or information technology, or an overseas qualification of an equivalent standard is required. Evidence should be included within the application to demonstrate suitable mathematical skills (to at least Mathematics A level), analytical skills and prior experience of basic computer programming.

Note that this programme is not suitable for people who have done first degrees in Computer Science, Information Technology or degrees which already contain a substantial computer science element.

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

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.

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. Your application will be judged entirely on the evidence you provide.

Your personal statement should include:
// why you want to study Computer Science at graduate level
// why you want to study Computer Science at UCL
// what particularly attracts you to this programme
// what your academic and professional background meets the demands of this programme
// what mathematics experience you have to meet the requirements of the programme
// what programming experience you have
// where you would like to go professionally with your degree

Successful applicants to this programme will be required to pay a tuition fee deposit dependent on their mode of study and fee status as given below:
// UK/EU full-time: £2,000
// UK/EU part-time: £1,000
// Overseas full-time: £2,000
// Overseas part-time: £1,000

Further details can be found on the Fees and funding page.