Cardiovascular diseases remain a major cause of death and ill health worldwide. This established MSc programme, taught by scientists and clinicians who are leaders in their field, offers you the opportunity to learn about topical areas in cardiovascular science, preparing you for further research or a career in industry, healthcare or beyond.

### Degree summary

You will develop a detailed knowledge of molecular and cellular cardiovascular science, animal models of cardiovascular disease, microvascular biology and mechanisms by which the heart and vasculature function in health and disease, as well as laboratory and statistical methods. You will gain an awareness of research integrity and practice valuable research skills relating to developments in cardiovascular science.

You will become part of the UCL Institute of Cardiovascular Science, which brings together world-leading scientists and clinicians working in cardiovascular research to conduct innovative research for the prevention and treatment of diseases of the heart and circulation, as well as education and policy development.

UCL has one of the largest, most dynamic cardiovascular research bases in the UK. This interdisciplinary programme is taught in collaboration with University College London Hospital (UCLH), UCL Institute of Ophthalmology, UCL Great Ormond Street Institute of Child Health, Great Ormond Street Hospital and Barts Heart Centre, offering you access to a world-leading community at the forefront of cardiovascular research.

There is an annual careers event for MSc students, which includes alumni, industry, healthcare and scientific publishing representatives.

The programme is delivered through a combination of lectures, seminars, presentations, tutorials, journal clubs, a quiz, statistical and laboratory practicals and anatomical examination of human congenital heart disease specimens. Assessment is through written and oral examinations, coursework essays, case reports, journal club and other oral presentations and the dissertation.

### Degree structure

**Mode:** Full-time: 1 year; Part-time: 2 years; Flexible: 2-5 years  
**Location:** London, Bloomsbury

You will undertake modules to the value of 180 credits. The programme consists of five compulsory modules (90 credits), two optional modules (30 credits) and the 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

- Cardiovascular Science and Disease
- Animal Models of Cardiovascular Disease
- Congenital Heart Disease - Fundamentals
- Heart and Circulation (30 credits)
- Basic Statistics for Medical Science

#### Optional modules

- 30 credits of optional modules drawn from the following:
  - Genetics of Cardiovascular Disease
  - Genomics and Drug Development
  - Drug Discovery II
  - Microvascular Biology
  - An Introduction to Molecular Laboratory Methods in Cardiovascular Research
  - Clinical Cardiology (open to clinicians only)

Clinical Cardiology is an academic MSc module rather than a standard clinical placement. The emphasis is on appreciating the impact of advances in cardiovascular science upon clinical practice.

#### Dissertation/Research project

All MSc students undertake an independent research project which culminates in a dissertation of 10,000-12,000 words and an oral presentation (60 credits).
As a graduate of this programme, you will be well placed for a PhD in this field and a career in research. You will also have a sound basis for entry into the healthcare and pharmaceutical industries.

Basic scientists may use the MSc as a stepping-stone to MBBS studies. The programme also provides an excellent training for related fields such as scientific journalism and in areas requiring critical appraisal of complex data.

**Employability**

In addition to academic insights into cardiovascular science, this programme provides you with a wide range of skills sought by employers:

- Oral and written communication skills
- Selection and interpretation of written content and organisation of complex ideas - through essays and the research project dissertation
- Quantitative analytical skills - through a statistics module
- Project management - through both group and independent projects
- Research planning and time management

During the programme, you will be supported by a personal tutor and informed by careers events and UCL Careers.
Entry requirements

A minimum of an upper second-class Bachelor's degree in a scientific or medical discipline from a UK university or an overseas qualification of an equivalent standard, or a recognised taught Master's degree.

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 Cardiovascular Science at graduate level
- why you want to study Cardiovascular Science at UCL
- what particularly attracts you to this programme
- how your academic 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 elaborate on your reasons for applying to this programme and how your interests 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: £12,510 (FT), £6,250 (PT)
// EU: £12,510 (FT), £6,250 (PT)
// Overseas: £25,150 (FT), £12,510 (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.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master's fee taken in an academic session.

Home/EU applicants may apply for the MSc Cardiovascular Science Bursaries

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

APPLICATION DEADLINE

All applicants: 19 August 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