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 students the opportunity to learn about topical areas in cardiovascular science, preparing them for further research or a career in industry.

**Degree summary**

Students 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. They will gain valuable research skills and an awareness of the ethical, legal and social aspects of developments in cardiovascular disease.

The UCL Institute of Cardiovascular Science 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, and provide world-class teaching and training, and forward-thinking policy development.

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

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

Students undertake modules to the value of 180 credits. The programme consists of five core modules (90 credits), two optional modules (30 credits) and the research project (60 credits).

<table>
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<th>CORE MODULES</th>
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<tr>
<td>Cardiovascular Diseases</td>
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<td>Animal Models of Cardiovascular Disease</td>
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<tr>
<td>Congenital Heart Disease - Fundamentals</td>
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<tr>
<td>Heart and Circulation (30 credits)</td>
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<td>Basic Statistics for Medical Science</td>
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<th>OPTIONAL MODULES</th>
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<td>30 credits of optional modules drawn from the following:</td>
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<tr>
<td>Genetics of Cardiovascular Disease</td>
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<td>Drug Discovery II</td>
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<td>Microvascular Biology</td>
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<tr>
<td>An introduction to Molecular Laboratory Methods in Cardiovascular Research</td>
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<tr>
<td>Clinical Cardiology (open to clinicians only)</td>
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<tr>
<td>Clinical Cardiology is an academic MSc module rather than a standard clinical placement. The emphasis is to appreciate the impact of advances in cardiovascular science upon clinical practice.</td>
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<th>DISSERTATION/RESEARCH PROJECT</th>
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<td>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).</td>
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Your career

All graduates of this programme will be well placed for a PhD in this field and a career in research, and will have a sound basis for entry into the pharma industry.

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 the academic insight into Cardiovascular Science, this programme supports the development of a wide range of skills which students will use at work.

Oral and written communication skills are enhanced. Writing essays and the research project dissertation involves searching the literature, selection and interpretation of publications, and organisation of complex ideas into the final report.

Learning activities in the Statistics module develop quantitative analytical skills.

Student develop group and independent projects. They gain insight into research planning and time management. They are supported by a personal tutor and informed by careers events and the UCL Careers Service.
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.

FEES AND FUNDING 2017/18 ENTRY

// UK: £11,800 (FT)
// EU: £11,800 (FT)
// Overseas: £23,710 (FT)

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 Current 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: 1 September 2017

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

CONTACT

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Email: j.pajerska@ucl.ac.uk

Telephone: +44 (0)20 7679 9245

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/eu-referendum

PDF Updated: July 18, 2017

This information is for guidance only. It should not be construed as advice nor relied upon and does not form part of any contract. For more information on UCL’s degree programmes please see the UCL Graduate Prospectus at www.ucl.ac.uk/graduate