The Complex Systems Modelling – from Biomedical & Natural to Economic & Social Sciences MSc course will teach you to apply mathematical techniques in the rapidly developing and exciting interdisciplinary field of complex systems and examine how they apply to a variety of areas including biomedicine, nature, economics and social sciences. This research-led course is suitable for graduates who wish to work in research and development in an academic or industrial environment.

Key benefits
- Located in the heart of London, giving unparalleled access to research facilities.
- You will be studying innovative modules covering modern theories of complex systems modelling.
- Research-led study course taught by staff who are recognised leaders in their field.

Course details
The Complex Systems Modelling MSc is an innovative study course that explores the latest research in the rapidly developing and exciting interdisciplinary field of complex systems. Modern societies rely on a broad range of infrastructures, institutions and technologies, and their complexities have grown dramatically in the recent past. Consequently, there is a rapidly expanding demand for expertise in complex systems modelling as a foundation for understanding, maintaining and further developing such systems.

The course offers you the choice to study either full or part-time. You must take a combination of required and optional modules totalling 180 credits to complete the course. If you are studying full-time, you will complete the course in one year, from September to September. If you are studying part-time, your course will take two years to complete. You will study the required modules and some optional modules in the first year, and a further selection of required and optional modules including the complex systems modelling project in your second year.

You will learn advanced mathematical tools which allow you to study complex systems as emerging in natural, biomedical, economic and social sciences. We also offer the opportunity to study an additional zero-credit module called Foundations for Complex Systems Modelling & Cross-disciplinary Approaches to Non-equilibrium Systems which is designed as a refresher module covering vital mathematics and physics skills.
Teaching
We use lectures and group tutorials to deliver most of the modules on the course. You will also be expected to undertake a significant amount of independent study.
You are expected to spend approximately 10 hours work per credit for each module you attend in your degree, e.g. 150 hours work for a 15 credit module. These hours cover every aspect of the module: lectures, tutorials, independent study, coursework and preparation for examinations.
During your work on the MSc Project you will have regular meetings with your project supervisor, but you are expected to spend the majority of your time in self-study to complete the project work.

Assessment
The primary method of assessment for this degree is written examination. You may also be assessed by essays, practical examination, oral presentation, reports, class tests and projects. The nature of assessment varies by module.

Regulating body
King’s College London is regulated by the Office for Students.
Career prospects
Graduates from this course go on to work in areas including:
- Management consultancy
- Biotechnology
- Machine learning and data science
- Financial and re-insurance sectors
- Smart cities and Urban policy
- Energy and environment
- Science of materials and engineering
- Software development
- Internet of Things
- Cybersecurity and Defence
- Entertainment and Serious Gaming
- Research.

Fees and funding

Full-time and part-time tuition fees – UK
The UK tuition fees for the 2019–20 academic year are available on the course web page.
Please note that the tuition fees for subsequent years of study may be subject to increases in line with King’s terms and conditions.

Full-time and part-time tuition fees – EU
Students starting their programme in 2019/20 (September 2019) who are eligible to pay EU fees will pay the same rate of tuition fees as UK students. This will apply for the duration of their programme, but may be subject to change by the UK Government for subsequent cohorts from 2020/21.
The UK tuition fees for the 2019–20 academic year are available on the course web page.
Please note that the tuition fees for subsequent years of study may be subject to increases in line with King’s terms and conditions.

Full-time and part-time tuition fees – International
The International tuition fees for the 2019–20 academic year are available on the course web page.
Please note that the tuition fees for subsequent years of study may be subject to increases in line with King’s terms and conditions.

Deposit
When you receive an offer for this course you will be required to pay a non-refundable deposit to secure your place. The deposit will be credited towards your total fee payment.
The UK/EU deposit is £500.
The International deposit is £2,000.
For further information, please visit the fees and funding section of our website: www.kcl.ac.uk/study/postgraduate/fees-and-funding/index.aspx

Additional costs
In addition to your tuition fees, you can also expect to pay for:
- books if you choose to buy your own copies
- library fees and fines
- personal photocopies
- printing course handouts
- society membership fees
- stationery
- travel costs for travel around London and between campuses
- graduation costs.

Disclaimer
Although this PDF was up-to-date at the time it was produced, please make sure you check our website www.kcl.ac.uk/study or contact us directly for the very latest information before you commit yourself to any of our courses.

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