Through our Computer Science MSci course you will gain an in-depth understanding of computer-based information systems in the heart of a connected London. The first two years of the course focus on programming, computer systems, databases, artificial intelligence, software engineering and logic. The third year includes a project implementing a sophisticated piece of software.

If you are considering an advanced career in research or industry, we recommend that you choose this four-year degree.

Key benefits
- Reputation for good teaching in a friendly environment.
- 92 per cent of research outputs ranked as world leading or internationally excellent – confirming the department’s position as a world-class institution for research in Computer Science (REF 2014).
- King’s has excellent facilities for the sole use of the department.
- Graduates go on to successful careers in a range of organisations including banking, finance, management and major software houses.
- This course is currently accredited by the BCS – the Chartered Institute for IT. This certifies that our course equips students with the foundations enabling a career in computing or information systems.

Course details
Our Computer Science MSci course will provide you with an in-depth understanding of the field of computer-based information systems in order to prepare you for a career in that area. In the first two years, you will study areas such as programming, computer systems, databases, artificial intelligence, software engineering and logic. In the third year, you will undertake an individual project.

If you are considering an advanced career in research or industry, we recommend that you choose this four-year course.

You will have access to over 200 fast PCs running Windows and Linux. These are spread over several laboratories for the exclusive use of the department. Our student societies organise social and other activities.

Teaching
Teaching is led by the Informatics Department. 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, laboratory sessions, independent study, coursework and preparation for examinations.

Assessment
You are assessed through a combination of written examination, essays, practical examination, oral presentations, reports, class tests and projects. The nature of assessment varies by module.

Regulating body
King’s College London is regulated by the Higher Education Funding Council for England.
Course structure

Courses are divided into modules. In each year you will normally take modules totalling 120 credits.

Year 1

Required modules
You are required to take:
- Programming Practice & Applications (30 credits)
- Computer Systems (15 credits)
- Foundations of Computing 1 (15 credits)
- Data Structures (15 credits)
- Database Systems (15 credits)

Optional modules
In addition, you are required to take 15 credits from a range of optional modules, which may typically include:
- Logic Design (15 credits)
- Introduction to Software Engineering (15 credits)

You are also required to take 15 credits from a range of optional modules, which may typically include:
- Elementary Logic with Application (15 credits)
- Mathematical Methods in Physics (15 credits)

Year 2

Required modules
You are required to take:
- Practical Experiences of Programming (15 credits)
- Introduction to Artificial Intelligence (15 credits)
- Foundations of Computing 2 (15 credits)
- Operating Systems & Concurrency (15 credits)

Optional modules
You are required to take three modules from a range of optional modules, which may typically include:

One 30 credit module from:
- Software Engineering Group Project (30 credits)
- Robotics Group Project (30 credits)

One 15 credit module from:
- Internet Systems (15 credits)
- Introduction to Robotics (15 credits)

One 15 credit module from:
- Programming Language Design Paradigms (15 credits)
- Signals & Systems (15 credits)

Year 3

Required module
You are required to take:
- Individual Project (30 credits)

Optional modules
In addition, you are required to take 90 credits from a range of optional modules that may typically include:
- Automata & Formal Languages (15 credits)
- Computer Science Language (15 credits)
- Software Measurements & Testing (15 credits)
- Computer Graphics Systems (15 credits)
- Artificial Intelligence Planning (15 credits)
- Cryptography & Information Security (15 credits)
- Artificial Intelligence Planning (15 credits)
- Algorithms from the World Wide Web & Social Networks Planning (15 credits)
- Formal Verification (15 credits)
- Distributed Systems (15 credits)
- Computational Models (15 credits)
- Software Architecture & Design (15 credits)
- Software Engineering of Internet Applications (15 credits)
- Network Security (15 credits)
- Optimisation Methods (15 credits)
- Text Searching & Processing (15 credits)
- Compilers & Formal Languages (15 credits)
- Human-Computer Interaction (15 credits)
- Pattern Recognition (15 credits)
- Computer Vision (15 credits)
- Agents & Multi-Agent Systems (15 credits)

Year 4

Required module
You are required to take:
- MSci Individual Project (30 credits)

Optional modules
In addition, you are required to take 90 credits from a range of modules that may typically include:
- Artificial Intelligence* (15 credits)
- Advanced Research Topics (15 credits)
- Agent & Multi-Agent Systems* (15 credits)
- Cryptography & Information Security* (15 credits)
- Advanced Software Engineering* (15 credits)
- Web Infrastructure* (15 credits)
- Parallel & Distributed Algorithms* (15 credits)
- Algorithm Design & Analysis (15 credits)
- Security Engineering (15 credits)
- Database Technology (15 credits)
- Optimisation Methods* (15 credits)
- Computer Forensics & Cybercrime (15 credits)
- Computational Models* (15 credits)
- Text Searching & Processing* (15 credits)
- Algorithms for Computational Molecular Biology (15 credits)
- Software Design & Architecture* (15 credits)
- Software Engineering of Internet Applications* (15 credits)
- Network Security* (15 credits)
- Distributed Systems* (15 credits)

* Students cannot take the fourth year version of the module if they have already taken the third year version.

King’s College London reviews the modules offered on a regular basis to provide up-to-date, innovative and relevant programmes of study. Therefore, modules offered may change. We suggest you keep an eye on the course finder on our website for updates.
Location
The course is taught at King’s Strand and Waterloo Campuses, putting you in the heart of London with access to all its academic resources and within easy reach of the social and entertainment attractions of one of the world’s most cosmopolitan cities.

The Department of Informatics offices are based at the newly renovated (2017) Bush House on the Strand Campus.

Career prospects
The Careers Service and the Department of Informatics run a careers programme for Informatics students, which includes skills sessions and visits from top employers. Our graduates go on to successful careers in a wide range of organisations including banking, finance, management, and the major software houses, where they work mainly on analysis, design, implementation and maintenance of software applications and systems. Alternatively, many of our graduates choose further study.

Fees and funding
Full-time tuition fees – UK
The UK tuition fees for the 2018–19 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 tuition fees – EU
Current regulations allow some students to pay UK tuition fees on the basis of their EU citizenship or residency. Until these eligibility criteria are changed, the EU tuition fee will remain the same as the UK tuition fee.

The UK tuition fees for the 2018–19 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 tuition fees – International
The International tuition fees for the 2018–19 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.

All International applicants to undergraduate courses are required to pay a deposit of £2,000 against their first year’s tuition fee. This deposit is payable when you firmly accept an unconditional offer to study with us, and will be offset against your tuition fees when you join King’s.

For further information, please visit the fees and funding section of our website: www.kcl.ac.uk/study/undergraduate/fees-and-funding/index.aspx

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

Disclaimer
This PDF was produced in August 2017. Although it 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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