The King’s International Foundation – Mathematics & Physics is a specialist course designed for ambitious international students. It is a one-year, full-time academic course designed to prepare you for undergraduate study at King’s College London or other top UK universities. It aims to develop essential subject knowledge, your academic language and study skills and introduce you to the UK education system so that you’re fully prepared for your degree.

**Key benefits**

- Academic preparation for your undergraduate degree at one of the top 25 universities in the world (2016/17 QS World University Rankings).
- Receive a guaranteed offer for most science-based undergraduate degrees at King’s.
- Benefit from our team of experienced and highly-qualified tutors who will give you the very best start in your academic studies.
- Enjoy the UK university experience from day one with access to our world-class facilities and support.
- Become part of a vibrant, multicultural community studying at a prestigious university in the heart of London.

**Course details**

The King’s International Foundation - Mathematics & Physics course is delivered jointly by the King’s English Language Centre and the Faculty of Natural & Mathematical Sciences. It provides a structured way into science-based undergraduate degrees at King’s.

By the end of the course, you will have improved your overall academic skills, your academic language and have a more detailed understanding of your chosen academic subject.
Teaching

A typical academic week includes approximately 16 contact hours, but some weeks will see a different number of contact hours.

You are expected to commit to an average of 16 hours a week of independent study, including independent research tasks.

This course is typically taught through a combination of lectures, seminars, classes and laboratory-based practicals. You will be assigned a personal tutor who you will meet with on a regular basis to receive individual advice on your progress.

You will also have the opportunity to take a range of optional International English Language Testing System (IELTS) classes and tutorials.

During the first semester, you will receive dedicated support for making your university application through UCAS (Universities and Colleges Admissions Service).

Assessment

The nature of assessment varies by module. Most modules are assessed through coursework and final examinations. In addition, some modules are assessed through presentations and practical laboratory examinations.

The study time and assessment methods detailed above are typical and give you a good indication of what to expect. However, they may change if the course modules change.

Regulating body

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

The King’s English Language Centre is accredited by the British Council for the teaching of English.

Course structure

The King’s International Foundation - Mathematics & Physics course consists of four modules:

- Mathematics Foundation
- Physics Foundation
- English for Scientific Academic Purposes or Academic Expression & Critical Thinking*
- Science & Society

*You will either study English for Scientific Academic Purposes or Academic Expression & Critical Thinking, depending on your level of English when you start the course.

Mathematics Foundation

The Mathematics module provides you with an in-depth introduction to the major mathematics topics required for successful undergraduate study. Theoretical lectures and problem-solving tutorials will support you in manipulating your knowledge of these key concepts so that you are able to apply them and discuss them in familiar contexts, as well as supporting you in beginning to understand more complex applications.

Physics Foundation

The Physics module will provide you with a thorough introduction to the key subject areas of basic mechanics, waves, atomic and nuclear physics, the structure of matter, thermal physics and electromagnetism. The module is delivered through a combination of theoretical lectures, problem-solving tutorials and laboratory-based practicals.

English for Scientific Academic Purposes

The module provides you with the skills you need to express yourself through speaking and writing within a variety of academic contexts in the hard sciences and more mathematically-based social sciences. It also aims to develop reading and listening skills within those same contexts. The module focuses on understanding your strengths and weaknesses, reflecting on and redrafting work using feedback, and working effectively under pressure. The module helps you develop an ability to understand and make effective use of academic articles, books and lectures while avoiding plagiarism. It also teaches you to structure and write critical essays, and to give academic presentations.

Academic Expression & Critical Thinking

The module develops your critical thinking skills so you are able to put forward logical, evidence-based arguments and to evaluate and critique others’ academic writing on the same basis. You will become more aware of conventions of academic writing and develop your ability to deliver an academic presentation.

Science & Society

The module provides a number of alternative perspectives on contemporary issues that will inform your future role as an engaged global citizen. The module covers three main areas:

- 1. Issues in modern science that have a direct effect on society and the ways in which individual societies deal with them.
- 2. Ideas, cultural norms, assumptions and practices of UK academic culture to help you enjoy and succeed in a UK university environment.
- 3. The use of analytical thinking tools to shape thoughts and arguments into convincing and credible analysis.

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
This course is primarily taught at the King’s College London Strand and Waterloo Campuses. You may have lessons, seminars or tutorials at other King’s College London campuses.

Progression
The King’s International Foundation - Mathematics & Physics course helps you progress to degrees such as Computer Science, Physics, Biomedical Engineering, Electronic Engineering, Electronic & Information Engineering, Mathematics and related subjects.

Fees and funding
Full time tuition fees
The 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 applicants to King’s International Foundation courses are required to pay a deposit of £2,000 against their tuition fee. This deposit is payable when you firmly accept a conditional or 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 your tuition fees, you can also expect to pay for:
• books if you choose to buy your own copies or are required to buy for your modules
• library fees and fines
• personal photocopies
• printing course handouts
• society membership fees
• stationery
• travel costs for travel around London and between campuses.

Disclaimer
This PDF was produced in October 2017. Although it was up-to-date at the time it was produced, please make sure you check our website or contact us directly for the very latest information before you commit yourself to any of our courses:
kcl.ac.uk/study

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