Biophysics is an interdisciplinary field that has led to some of the most significant developments in modern science. Our Physics with Biophysics MSci will give you a deep understanding of the fundamental aspects of the physics of life. Approximately one quarter of the course is biophysics related – i.e. the application of physics, mathematics and computing to understand the workings of living systems.

Through coursework and supervised research projects you will gain a breadth of skills and knowledge in a diverse academic and research environment.

**Key benefits**
- Award winning – six former staff and students in the Department have won Nobel Prizes.
- Internationally-renowned academic staff in the fields of biophysics, soft matter, nanotechnology and cosmology.
- Friendly and supportive learning environment.
- 90 per cent of our research is classed as world leading or internationally excellent.
- Central location gives you easy access to major libraries and many leading societies, including the Institute of Physics.
- Study a unique course in the UK.

**Course details**

The first three years of the course will provide you with a strong foundation in Physics and Biophysics. In the fourth year you will have the opportunity to specialise further based upon your interests through optional modules and an MSci research project in an academic laboratory of your choice.

Problem solving and project work is an important part of this course and you will learn about team work, group organisation, and the skills of oral and poster presentations. We also encourage you to work with a school, to experience teaching and develop the skill of presenting information to non-experts. You will be assigned a personal tutor to support your development and our Department encourages an atmosphere in which students feel able to easily approach academic staff. Our Student-Staff Liaison Committee provides a forum for the exchange of ideas and feedback on teaching.

**Flexibility in course choice**

Students who enrol on the MSci/BSc Physics with Biophysics, can typically change to most of the other Physics courses at the end of their first year. Similarly, students who have initially enrolled on other Physics courses can change to Physics with Biophysics at the end of the first year provided that they have taken the first year module 'Introduction to Biophysics'. Students can switch between the BSc and MSci versions of the course until their third year of study but progression into the final year of the MSci is contingent on performing at upper second class level or better in the first three years of study.

Staff and students are members of the Maxwell Society, which is the Department of Physics’ social and lecture society.
Teaching
We will teach you through a combination of lectures and laboratory classes, tutorials and project work. All of our academic staff are involved with the undergraduate teaching course. You are expected to spend approximately 10 hours work per credit for each module you attend in your degree, eg 150 hours work for a 15 credit module. These hours cover every aspect of the module.

Assessment
We will assess you primarily through written exams, although occasionally also through practical laboratory examinations, laboratory reports, class tests, coursework and oral presentations.

Regulating body
King’s College London is regulated by the Office for Students.

Course structure
Each course is divided into modules. You will normally take modules totalling 120 credits.

Year 1
Required modules
You are required to take:
- Physics Skills & Techniques (30 credits)
- Mathematics & Computation for Physics (30 credits)
- Classical Physics (30 credits)
- Introduction to Modern Physics (15 credits)
- Introduction to Biophysics (15 credits)

Optional modules
There are no optional modules in your first year.

Year 2
Required modules
You are required to take:
- Experimental Physics (15 credits)
- Mathematical Methods for Physics (15 credits)
- Thermal Physics & Properties of Matter (15 credits)
- Quantum Mechanics I (15 credits)
- Electromagnetism (15 credits)
- Relativity & Sub-atomic Physics (15 credits)
- Principles of Biophysics (15 credits)

Optional modules
In addition, you are required to take 15 credits from a range of optional modules, which may typically include:
- University Ambassadors’ Scheme (15 credits)
- Fundamentals of Nanotechnology (15 credits)
- Introduction to Medical Imaging (15 credits)
- Modelling Flow & Transport (15 credits)

Year 3
Required modules
You are required to take:
- Statistical Mechanics (15 credits)
- Optics (15 credits)
- Condensed Matter I (15 credits)
- Quantum Mechanics II (15 credits)
- Particle Physics (15 credits)
- Third year Project in Physics (Biophysics related) (15 credits)
- Advanced Biophysics (15 credits)

Optional modules
In addition, you are required to take 15 credits from a range of optional modules, which may typically include:
- Bio & Nanomaterials in the Virtual Lab (15 credits)
- Scientific Communications (15 credits)

Year 4
Required modules
You are required to take:
- Literature Review (Biophysics related) (15 credits)
- Project (Biophysics related) (30 credits)
- Current Topics in Biophysics (15 credits)

Optional modules
In addition, you are required to take 60 credits from a range of optional modules, including the 40+ modules offered by the University of London colleges as part of the intercollegiate MSci. Examples offered by King’s include, amongst many others:
- Bio & Nanomaterials in the Virtual Lab (15 credits)
- Scientific Communications (15 credits)

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 primarily taught at the King’s College London Strand Campus.

Our Department is located on the seventh floor with views over the Thames to the London Eye and Westminster. This central location gives you easy access to major libraries and many leading societies including the Institute of Physics, as well as the extensive cultural and social offerings of one of the world’s most vibrant and dynamic cities.

**Career prospects**

Our Physics graduates are in high demand because employers recognise the wide range of skills that they possess. We train physicists to be good problem solvers, to think logically and to apply mathematical and computational techniques to real problems.

Recent physics graduates have found employment or further study as:

- Investment Manager, Manthan Capital
- Project Engineer, Cryogenic Ltd
- Researcher, Institute of Scientific Instruments
- Risk Analyst, City Index
- Maths Part III, Cambridge
- Software Engineer IBM
- Physics Teacher, London
- PhD student, The Francis Crick Institute

**Fees and funding**

**Full-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 tuition fees – EU**

Current regulations allow EU students to pay the same rate of tuition fees as Home (UK) students on the basis of their EU citizenship or residency. This will remain the case for 2019–20 but may be subject to change in subsequent years. The Government is expected to announce any changes regarding EU student tuition fees in September 2018.

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 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.

**Additional costs**

In addition to your tuition costs, 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**

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](http://www.kcl.ac.uk/study) or contact us directly for the very latest information before you commit yourself to any of our courses.

**Contact us**

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