The Neuroscience BSc at King's is a modern and multidisciplinary degree covering aspects of cell, molecular and developmental biology, neuroanatomy, physiology and pharmacology. It also links to psychology and philosophy. The course will give you a broad grounding in the subject, with special emphasis on developmental neuroscience, diseases and disorders of the nervous system, and clinical and psychological aspects of neuroscience.

### Key benefits

- Europe’s largest centre for medical and professional healthcare education.
- 88 per cent student satisfaction (National Student Survey 2016).
- Teaching by internationally renowned scientists and researchers.
- One of the UK’s best graduate employment rates.
- A contemporary approach to the study of neuroscience, reflecting state-of-the-art research techniques and models.
- Opportunity to perform a substantial original research project in a leading laboratory.
- Flexible options to tailor your degree through overseas study, work placement or to switch to a four-year MSci.

### Course details

Neuroscience is a vibrant and emerging discipline that seeks to understand the development, structure and function of the nervous system, as well as giving insights into possible therapies for neural diseases and disorders. The field of neuroscience draws its impetus from recent advances in molecular and cell biology, neuroimaging, systems neuroscience and bioinformatics, as well as incorporating a wide variety of conventional disciplines including anatomy, neurology, psychology and psychiatry.

One of the key strengths of the Neuroscience BSc at King’s is its focus on research. Our neuroscience research centres are at the forefront of the field and their work informs the delivery and shape of our course.

---

**Psychology & Neuroscience and Biomedical & Life Sciences**

**Neuroscience BSc (Hons)**

**UCAS code:** B140

**2018 entry**

**Duration:** three years

**Study mode:** full-time

[www.kcl.ac.uk/study/undergraduate/courses/neuroscience-bsc.aspx](http://www.kcl.ac.uk/study/undergraduate/courses/neuroscience-bsc.aspx)
Our undergraduate course will provide you with an integrated knowledge base in neuroscience, and a wide set of skills, including analytical and critical thinking, and the ability to understand and communicate complex ideas through different media.

This course forms part of the suite of ‘Common Year 1’ courses within the School of Bioscience Education. These comprise Anatomy, Developmental & Human Biology; Biochemistry; Biomedical Science; Medical Physiology; Molecular Genetics; Neuroscience; Pharmacology; Pharmacology & Molecular Genetics. Once you have successfully completed Year 1, you can choose to switch to any other course within this suite.

In your second year, you will specialise in neuroscience, taking an integrated range of courses from molecular and developmental biology, neuroanatomy and physiology up to psychological theories of mind.

These modules are integrated to provide an overview of neuroscience disciplines and to give you the knowledge to progress to the third year where you will further specialise, choosing one of three pathways: Neuroscience – Laboratory Research; Neuroscience and Neuropsychology, or; Neuroscience – Literature and Practical Topics.

In Year 2 you may also choose to study abroad at one of our partner institutions, or you can apply to undertake an extra-mural or work placement, usually at a leading biomedicine employer.

Alternatively, after the ‘Common Year 1’ course, you can apply to transfer to one of our four-year MSci courses: Biochemistry MSci; Molecular Genetics MSci; Neuroscience MSci. In Year 3 you can apply to transfer to the four-year Integrated Pharmacology & Physiology for Research MSci.

Teaching
Teaching on this course takes place in lectures, seminars and tutorials and through practical laboratory work. The rest of your time will be spent on self-study, including reading, research and writing assignments.

<table>
<thead>
<tr>
<th>Course stage</th>
<th>Percentage of time in scheduled learning and teaching activities</th>
<th>Percentage of time in guided independent study</th>
<th>Percentage of time on placements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>25%</td>
<td>75%</td>
<td>-</td>
</tr>
<tr>
<td>Year 2</td>
<td>28%</td>
<td>72%</td>
<td>-</td>
</tr>
<tr>
<td>Year 3</td>
<td>20%</td>
<td>80%</td>
<td>-</td>
</tr>
</tbody>
</table>

Assessment
You will be assessed through a combination of coursework, examinations and practical observation.

<table>
<thead>
<tr>
<th>Course stage</th>
<th>Percentage of assessment by written exams</th>
<th>Percentage of assessment by practical exams</th>
<th>Percentage of assessment by coursework</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>78%</td>
<td>5%</td>
<td>17%</td>
</tr>
<tr>
<td>Year 2</td>
<td>69%</td>
<td>5%</td>
<td>26%</td>
</tr>
<tr>
<td>Year 3</td>
<td>33%</td>
<td>13%</td>
<td>54%</td>
</tr>
</tbody>
</table>

If you choose an extra-mural placement this will be assessed through a written dissertation and a poster presentation which will be deemed equivalent to 60 credits at Level 6 (the normal level of Year 3 study).

Course accreditation
In recognition of its focus on research and academic excellence, our Neuroscience with extra-mural year BSc has been given Advanced Degree Accreditation by the Royal Society of Biology. Graduates of an accredited course can apply for membership of the Royal Society of Biology at Member (MRSB) level after just one year of practice, rather than the usual three years. This will allow you to attain the qualifications of Chartered Biologist or Chartered Scientist two years earlier than graduates from other degree courses.

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

Courses are divided into modules. You will normally take modules totalling 360 credits.

There are options to switch to any other course in the Bioscience suite or to a four-year MSci after Year 1. You can also choose to study abroad during Year 2.

Year 1

Required modules
You are required to take:
- Biochemistry (15 credits)
- Chemistry for the Biosciences (15 credits)
- Genetics & Molecular Biology (15 credits)
- Cell Biology & Neuroscience (15 credits)
- Fundamentals of Physiology & Anatomy (30 credits)
- Fundamentals of Pharmacology (15 credits)
- Skills for the Biosciences (15 credits)

Optional modules
You are required to one module from a a range of optional modules, which may typically include:
- Molecular & Cellular Neuroscience (15 credits)
- Advanced Topics in Philosophy of Mind (15 credits)
- Gene Cloning & Expression A (15 credits)

You will also have the opportunity to study abroad for your second year at one of our partner universities, which currently include:
- The Karolinska Institute in Stockholm, Sweden
- The University of Melbourne, Australia
- National University of Singapore
- The University of California
- The University of North Carolina - Chapel Hill

You may be required to fulfil additional entry requirements for this option.

Alternatively, you may apply for an extra-mural year, to be taken between the second and third years if selected. Students apply directly to placement providers through a process facilitated by the university. Placements, either in the UK or overseas, may be in a pharmaceutical company, a government research establishment or academic research institute. Courses incorporating the extra-mural year are accredited by the Royal Society of Biology.

Year 2

Required modules
You are required to take:
- Neuroscience (30 credits)
- Neuroscience & the Mind (15 credits)
- Physiology & Pharmacology of the Central Nervous System (15 credits)
- Essentials of Embryology (15 credits)
- Psychology 1 (15 credits)
- Gene Cloning & Expression A (15 credits)

Optional modules
You are required to one module from a a range of optional modules, which may typically include:
- Molecular & Cellular Neuroscience (15 credits)
- Advanced Topics in Philosophy of Mind (15 credits)

You will also have the opportunity to study abroad for your second year at one of our partner universities, which currently include:
- The Karolinska Institute in Stockholm, Sweden
- The University of Melbourne, Australia
- National University of Singapore
- The University of California
- The University of North Carolina - Chapel Hill

You may be required to fulfil additional entry requirements for this option.

Alternatively, you may apply for an extra-mural year, to be taken between the second and third years if selected. Students apply directly to placement providers through a process facilitated by the university. Placements, either in the UK or overseas, may be in a pharmaceutical company, a government research establishment or academic research institute. Courses incorporating the extra-mural year are accredited by the Royal Society of Biology.

Year 3

In your final year you will choose one of the following pathways:

1. Neuroscience – Laboratory Research
   This pathway features a major neuroscience project within a research laboratory. It can be on a wide range of topics within cells, systems, developmental neuroscience or neurodegeneration.

   Required modules
   You are required to take:
   - Laboratory-based Project in Neuroscience (45 credits)
   - Principles of Neurobiological Research (15 credits)

   Choose one of the following options:
   - Developmental Neurobiology (30 credits)
   - Perspectives on Pain & Nervous System Disorders (30 credits)
   - Imaging the Brain Reading the Mind and Memory Mechanism in Health and Disease (15 credits)

   Choose one of the following options:
   - Mechanisms of Development (30 credits)
   - Cellular & Systems Neuroscience (30 credits)

2. Neuroscience and Neuropsychology
   This pathway features a psychology research project.

   Required modules
   You are required to take:
   - Cognitive Neuropsychology (30 credits)
   - Research Methods & Statistics Psychology Project (30 credits)

   Choose one of the following options:
   - Cellular & Systems Neuroscience (30 credits)
   - Memory Mechanisms in Health & Disease (15 credits)

Choose two of the following options:
- Imaging the Brain, Reading the Mind (15 credits)
- Pharmacology of Neurological & Psychiatric Disorders (15 credits)
- Neuroendocrinology (15 credits)

3. Neuroscience – Literature and Practical Topics
   This pathway features a literature-based neuroscience project (15 credits) and a shorter laboratory-based module comprising structured experimental sessions.

   Required modules
   You are required to take:
   - Literature based Research Project in the Neurosciences (15 credits) and/or
   - Project Design in Neuroscience (30 credits)

   Optional modules
   Take sufficient credits to bring your total for the year to 120, from a range of optional modules which may typically include:
   - Cellular & Systems Neuroscience (30 credits)
   - Pharmacology of Neurological & Psychiatric Disorders (15 credits)
   - Neuroendocrinology (15 credits)
   - Behavioural Science (15 credits)
   - Developmental Neurobiology (30 credits)
   - Cellular Basis of Drug Dependence (30 credits)
   - Perspectives on Pain & Nervous System Disorders (30 credits)
   - Experimental Topics in Neuroscience (15 credits)
   - Mechanisms of Development (30 credits)
   - Memory Mechanisms in Health & Disease (15 credits)
   - Imaging the Brain, Reading the Mind (15 credits)
During Year 3 you can apply to transfer to the four-year MSci Neuroscience, on which you will be required to take a 60 credit research project, a 30 credit project design module, and one of a range of optional 30 credit modules.

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 our King’s College London Guy’s and Denmark Hill Campuses, putting you at the heart of everything London has to offer in terms of academic resources and also close to its social and entertainment attractions.

Career prospects
Graduates from the School of Bioscience Education are equipped with a variety of transferable skills including data gathering, analysis and interpretation, presentation skills and teamwork. Others have continued to study in medicine, dentistry and other related fields including pharmaceutical sciences, cardiovascular pharmacology and biomedical research.

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.

Fees for International students are subject to change and are published in the summer of the year of entry. Fees are reviewed annually and may be increased in future years.

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.

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
If you choose the study abroad option with one of King’s partner universities, you will not be charged tuition fees by the host university (although some partners do charge a small administration fee for applying). Please see the Study Abroad web pages for details of the relevant partner universities.

While students are on a study abroad or extra-mural year, King’s will continue to invoice students for a proportion of King’s tuition fees. At present these are as follows:

- Home students studying or working for a full academic year abroad will receive an invoice for £1,350 for King’s tuition fees for the year.
- Overseas students studying or working for a full academic year abroad will receive an invoice for one third of the King’s tuition fees for the year.

You should also budget to pay for the associated subsistence costs, such as travel, visas, accommodation and food as well as any vaccination/immunisations required by the country to which you are travelling.

In addition to the costs above, you can also expect to pay for:
- books if you choose to buy your own copies
- college approved calculator for exams (Casio fx83 or fx85)
- library fees and fines
- personal photocopies
- printing course handouts
- society membership fees
- stationery
- graduation costs
- travel costs for travel 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.

Contact us
Tel +44 (0)20 7836 5454