Choose Pembroke for

**SCIENCE**

Biochemistry  
Biology  
Chemistry  
Engineering  
Experimental Psychology  
Maths  
Maths & Philosophy  
Medicine  
Physics  
Physics & Philosophy  
Psychology  
Psychology, Philosophy & Linguistics (PPL)
As an undergraduate in the sciences at Pembroke, you’ll have plenty of opportunities to excel, to do extraordinary things and work with amazing people.

In the last three years Pembroke has sent its undergraduates on fully funded internships to labs in Oxford, research stations in Kenya and Samoa. They’ve won university prizes, gone on to research degrees all over the world and progressed to a range of exciting careers in the sciences and beyond.

And while they’ve been in Pembroke they’ve had the chance to work closely with our College tutors who are building autonomous robots, researching climate change and particle physics, and carrying out pioneering research into the chemistry behind groundbreaking new drug treatments.

Read on to find out more…

**Recognition in Science for Oxford University**

**Top University in the world**
for clinical, pre-clinical and health and life sciences

**TIMES HIGHER RANKINGS 2018**

**Best research in the country**
for mathematical, physical, engineering and life sciences

**RESEARCH EXCELLENCE FRAMEWORK 2014**

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**Undergraduate admissions at Oxford**

Full information about applying to Oxford, including submitting your UCAS application, admissions tests, the interview process and the timeline for decisions, can be found at:

www.ox.ac.uk/admissions/undergraduate/applying-to-oxford

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**Five great reasons why you should #ChoosePembroke**

1. **Inspirational tutors**

   Pembroke is a great place to study Psychology, Philosophy and Linguistics (PPL) because all of the tutors are really helpful. I’ve thoroughly enjoyed the tutorials I’ve had at Pembroke because they are very engaging, and you always come out having learnt a lot.

   Colette, PPL

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"For me, the most important thing about Pembroke is the atmosphere. We have a reputation for being a friendly and fun college, and we have immense amounts of college spirit.

Jessica, Biochemistry"
Academic enrichment...

Pembroke's scientists belong to a wider academic community, where cross-disciplinary links are made. Tutors co-ordinate a variety of societies and events for students on their courses. Students have the opportunity to attend lectures, seminars and other academic-related events (within and beyond their area of study), often involving high-profile speakers and experts in their field.

...in a vibrant community

Pembroke science students are part of an active and supportive student community. The College plays host to a broad range of student-led activities, clubs and societies. All current undergraduates are automatically members of the Junior Common Room (JCR). The JCR is a tightly knit and inclusive community that discusses and makes important decisions together and organises a range of social events for students throughout the year. Through our Mentoring Scheme, you’ll be able to learn from Pembroke’s postgraduate students, who offer academic and study skills guidance.

A great place to be

The College offers a guarantee of three years of student accommodation; great food and a convenient environment in the heart of Oxford. Students benefit from 24-hour access to the College library and can book seminar rooms to study in.

We encourage students to have a balanced lifestyle at Oxford, and you can excel in and enjoy a wide range of activities – from student journalism to rowing; a lively music scene and the College’s very own student-owned art collection. There are opportunities beyond Oxford – for example, every year four students have the opportunity to spend two weeks in Japan with the Technos International Event.

Internships and Funding

Pembroke science students can apply for Rokos Awards (see overleaf) – fully funded summer internships in labs in Oxford and across the world, providing unique opportunities to enhance your studies and scientific knowledge by pursuing further research in an academic setting. In addition, we offer a range of funds and grants to ensure that students are supported financially during their time at Pembroke (see overleaf).

“Pembroke really supports doing research internships during your degree through the Rokos fund. It is a great way to gain exposure into the different realms of your subject.”

Sneha, Physics
Pembroke’s Rokos Awards support students looking to enhance their studies and scientific knowledge through research internships over the summer vacation.

The Rokos Awards funds the full cost of students undertaking academic summer internships in Oxford and beyond, including free accommodation in Pembroke, up to £1,000 for academic expenses and £100 per week for personal expenses.

This opportunity is open to all students studying Biochemistry, Biology, Chemistry, Engineering, Experimental Psychology, PPL, Mathematics, Maths & Philosophy, Physics, Physics & Philosophy or pre-clinical Medicine.

In 2018, 20 award recipients from each of these subjects undertook research in a variety of areas including:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry</td>
<td>Xist RNA-mediated silencing in the context of X-chromosome inactivation</td>
</tr>
<tr>
<td>Biology</td>
<td>The sexual behaviour of Gallus gallus, the red junglefowl</td>
</tr>
<tr>
<td>Chemistry</td>
<td>The molecular mechanisms of epigenetic processes and drug discovery</td>
</tr>
<tr>
<td>Engineering</td>
<td>Estimation of elastic constants for orthotropic plates using a Chladni setup</td>
</tr>
<tr>
<td>Experimental Psychology</td>
<td>The effect of Prucalopride administration on emotional processing in healthy volunteers</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Theoretical Biology - Extensions of the Rosenzweig MacArthur Predator-prey model</td>
</tr>
<tr>
<td>Medicine</td>
<td>Trivalent vs. quadrivalent, and systematic review through the development of a robust search strategy</td>
</tr>
<tr>
<td>Physics</td>
<td>Quantum computing and Quantum information</td>
</tr>
</tbody>
</table>

All Pembroke students benefit from the financial support available to all Oxford undergraduates – see below for full information.

In addition, the College provides:

- **Hardship funds** for students who face unexpected difficulties due to changes in circumstances once here.
- **Vacation grants** for students who need to stay in Oxford after the end of term for exams or other study-related reasons.
- **A variety of travel funds** for study-related activities.

Pembroke offers a range of special academic prizes and awards as well as for those involved in sports and the arts at high levels.

In addition, academic excellence is rewarded through generous annual **College Scholarships and Exhibitions**, awarded on the basis of performance at public exams and throughout the year; Scholarships are currently worth £600 and Exhibitions £450, plus an academic allowance of £250 for Scholars and £150 for Exhibitioners. Additionally, Scholars and Exhibitioners will also receive a gift of a Scholars gown, a prestigious dinner to celebrate the admission of new Scholars and Exhibitioners and a plaque listing.

You can read reports by our 2018 Rokos Awardees: [www.pmb.ox.ac.uk/rokos-2018](http://www.pmb.ox.ac.uk/rokos-2018)

Find out more at:
[www.ox.ac.uk/students/fees-funding](http://www.ox.ac.uk/students/fees-funding)
[www.pmb.ox.ac.uk/finance-undergraduate](http://www.pmb.ox.ac.uk/finance-undergraduate)
Biochemistry explores the fundamental biological and chemical processes and systems that underpin all life. To study these processes, researchers use a wide range of methodologies including genetics, bioinformatics, structural determination, molecular, chemical approaches and mathematical modelling. The undergraduate course at Oxford is a 4-year integrated Masters course and introduces a broad range of major biochemical concepts and topics that give insights into the fundamental principles of life.

Why choose Pembroke?

Pembroke has a friendly and supportive community, coupled with approachable, open and caring tutors. As well as striving to organise tutorials which are tailored to suit the needs and interests of the students, our tutors also deliver a high level of pastoral care. We have a highly experienced and dedicated teaching team and their expertise covers a wide range of the subjects and topics of the biochemistry course. All tutors teach you throughout the duration of the course and will be able to advise and support you during your time at Pembroke.

What extra activities do we offer?

The biochemistry cohort usually meet up socially once per term, and there is an annual subject dinner which is attended by the whole subject community.

What characteristics do you need to be successful in this subject?

To be successful on this course, an interest in and enthusiasm for biochemistry is essential, as is an ability to discuss and analyse relevant topics. Reasoning and problem-solving skills are also key.

“In my opinion, Pembroke is the best college to study Biochemistry. Each year we have a strong cohort of Biochemistry students who all support each other, with incredible support from our tutors, especially Professor André Furger.”

Jessica, Biochemistry

Meet our lead tutor

Professor André Furger is a Tutorial Fellow in Biochemistry and holds overall responsibility for the delivering and organisation of the tutorials and pastoral care.

He also leads a research group at the Department of Biochemistry and the aim of his research is to understand how human cells adapt and change the activation of genetic information in response to environmental and biological stress and during disease progression.

What characteristics do you need to be successful in this subject?

A genuine scientific curiosity, an affinity towards mathematical models complemented by an open mind and good time management skills are all key characteristics to be successful on this course.

Meet our tutors

Professor Nicholas Kruger is a Tutorial Fellow in Biological Science. He is a biochemist with a specific interest in the plant carbohydrate metabolism, and a broader interest in enzymology and understanding the organisation and regulation of metabolic networks.

Dr Roberto Salguero-Gómez is an Associate Professor and Tutorial Fellow in Ecology. His research focuses on the evolution of aging, specifically from a non-human centric perspective, and also building demographic models which aim to predict if and when natural populations will become extinct.

The Biology course at Oxford reflects the importance of both pure and applied biology throughout the plant, animal and microbial kingdoms, and is structured to allow extensive variety of choice while preserving in-depth treatment of central topics. Biology is a four-year single honours degree course taught jointly by the Departments of Plant Sciences and Zoology. The recently redesigned course allows students to leave after the third year with a BA degree, or to continue for a fourth year to gain an MBiol qualification.

Why choose Pembroke?

Pembroke offers a wealth of interdisciplinary approaches to the understanding of biology, including ecology, evolution, behaviour and molecular biology. Our tutors are engaged in research across the breadth of the subject and are particularly focussed on exploring major over-arching questions in Biology. Undergraduates are welcomed into the broader Life Sciences community in college that includes a large cohort of postgraduates, independent researchers and senior research associates in Biology and related biosciences.

What extra activities do we offer?

Our Fellows organise practical tutorials which take place at field sites across Oxford, for example at the Botanic Gardens and at the Museum of Natural History. We are in the process of setting up a Natural History Society which will offer backstage guided field trips to locations such as the Harcourt Arboretum at Nuneham Courtenay, the University Museum of Natural History, and Wytham Woods.

“At Pembroke you will never feel alone when facing the challenges of studying at Oxford. The tutors will not only always be happy to help you solve problems, but very often will prepare you for them before they even arise!”

Michal, Biology

Want to find out more?

www.pmb.ox.ac.uk/biochemistry

Want to find out more?

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“Pembroke has world-renowned tutors that… are experts in their field, and this allows us, as students, to learn from the very best, and access the most advanced techniques and analysis.”

Meet our tutors

Professor Ben Davis
is a Tutorial Fellow in Organic Chemistry at Pembroke. He was elected a Fellow of the Royal Society in 2015 and a Fellow of the Academy of Medical Sciences in 2019 for his outstanding contributions to advancing the chemistry of biology and medicine.

Professor Andrew Baldwin
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Dr Ann Chippindale
is a Stipendiary Lecturer and Tutor in Inorganic Chemistry. Her research is focused on X-ray crystallography and discovering arrangements of atoms in never-before-seen structures.

What extra activities do we offer?

In addition to a focussed tutorial programme, we offer revision classes that guide you through the Oxford exam processes, and additional specialist tutorials and support in all of the subsidiary course topics: maths, biological sciences and physics. The Pembroke Undergraduate Chemistry Society (PUCS) brings together undergraduates and graduates once a term for a dinner or social occasion, giving you the opportunity to meet and integrate with the full College chemistry community (undergraduate, graduate and academics).

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It is possible to study psychology at Oxford in two ways: students can apply either to study Experimental Psychology (EP) or Psychology with Philosophy or Linguistics (PPL). Students study a diverse programme which spans the neural and psychological mechanisms of human behaviour, statistics, and experimental methods and design. Recent Pembroke graduates have gone on to a wide range of careers including teaching, clinical psychology, graduate medicine, marketing and further research.

**Why choose Pembroke?**

Pembroke has a friendly psychology community and an excellent support network that unites both undergraduate and graduate students. For undergraduate students, the close relationship with graduates provides a direct link to ongoing research, and opportunities to discuss, and be involved with, all stages of the experimental process.

**What extra activities do we offer?**

During term, the whole psychology community meets once a week for lunch. These informal lunches facilitate the sharing of information from practical discussions about the course and life in Oxford, through to conversations about exciting psychological discoveries. We also have regular research evenings where finalists, graduate students, tutors, and guest speakers present their research.

**What characteristics do you need to be successful in this subject?**

In addition to a very good track record of academic achievement, students must be able to evaluate evidence, consider issues from different perspectives, and adjust their position in light of new information.

“Pembroke psychology is well-known for its weekly lunches when everyone meets up - from undergraduates to DPhil students and the tutors. This is always a great opportunity to get advice from older students and learn more about opportunities in post-graduate psychology.”

Lena, Experimental Psychology

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**Oxford’s maths courses aim to equip you with the ability to handle abstractions and to analyse problems rapidly and rigorously. Pembroke graduates have been successful in further academic study in mathematics, statistics, computer science and other related fields. They have gone on to posts in finance, accountancy, insurance, banking, information technology, statistics and various engineering fields.**

**Why choose Pembroke?**

Pembroke offers a diverse range of subject areas from algebraic geometry and number theory to algorithms and data sciences. Our tutoring system offers the opportunity for you to meet and engage with up-and-coming lecturers who are specialists in their own exciting fields of research.

**What extra activities do we offer?**

The maths society meets twice a term and offers engaging talks by guest speakers about the real-life application of mathematics. It also provides the unique opportunity to network with experts in a range of fields. To ensure that you feel at home at Pembroke as quickly as possible, you will be matched with a second year “buddy” so there is always someone to ask questions to, confide in, or just go for a coffee with.

**Have you considered our joint course?**

Mathematics & Philosophy

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“Pembroke is a great place to study. There’s a truly collaborative team spirit among the maths students, and we work through the syllabus together.”

George, Mathematics

**Want to find out more?**

**www.pmb.ox.ac.uk/maths**

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**5 up to places per year, across EP/PPL**

**Mathematics**

**5 academic achievement, students must be**

**In addition to a very good track record of**

**What characteristics do you need to**

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**6 Mathematics**

**2 Maths & Philosophy**

**8 places per year**
The Oxford Medical School is ranked as the best in the world and Pembroke medics benefit from being part of this world-leading course. We will train you to be an academic clinician with a strong understanding of research as applied to medicine.

Why choose Pembroke?
At Pembroke we have a large number of students studying maths or philosophy, creating a large but close-knit community where members support each other.

What extra activities do we offer?
The maths society meets twice a term and offers engaging talks by guest speakers about the real-life application of mathematics. It also provides the unique opportunity to network with experts in a range of fields. Meanwhile, the philosophy team organise a talk from a prominent philosopher once per term and there is a reading group which meets regularly. Students studying our joint degrees benefit from both sets of subject activities.

“Studying medicine at Pembroke has been one of the most amazing experiences of my life because of the unique blend of academia and fun that the college provides.”

Cian, Medicine

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Have you considered our other joint Philosophy courses?
Physics & Philosophy
Psychology, Philosophy & Linguistics (PPL)
Philosophy, Politics & Economics (PPE)
Philosophy & Modern Languages
Philosophy & Theology

What characteristics do you need to be successful in this subject?
Strong academic engagement and a commitment to medicine are key to be successful in this subject. Students need to be able to engage with a problem and explore numerous possible solutions.

Meet our lead tutor

Professor Jeremy Taylor
is a Tutorial Fellow in Physiological Sciences. He is an expert in Neuroanatomy with a particular interest in the wiring of the brain and nerve fibre growth.

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Maths and Philosophy is a joint honours degree bringing together the logic and thought of philosophy with that of mathematics.

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“We hold several dinners throughout the academic year to bring the Pembroke medical community together. Alumni are invited back to College to share inspirational stories of where their medical degree has taken them.”

Silvia, Maths & Philosophy

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www.pmb.ox.ac.uk/maths-philo

Want to find out more?
www.pmb.ox.ac.uk/medicine

Mathematics
Maths & Philosophy
8 places per year
4 undergraduate (A100)
4 graduate (A101)

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For the maths element of the course students need a real interest in the subject, coupled with a deep passion for abstract concepts and on the philosophy side an ability to think clearly, reason and engage in structured arguments is key.

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www.pmb.ox.ac.uk/maths-philo

Want to find out more?
www.pmb.ox.ac.uk/medicine

Mathematics
Maths & Philosophy
8 places per year
4 undergraduate (A100)
4 graduate (A101)
Physics is concerned with analysing nature to understand how the universe works. Studying physics at Oxford equips students with the tools needed to understand the world around them, ranging from small sub-atomic particles, to the large-scale structure of the cosmos, and everything in between. The impact of physics in society is profound, contributing to advancements in solving global problems such as environmental protection, global warming, energy production and public health.

**Why choose Pembroke?**
Pembroke is home to a vibrant physics community and friendly tutors who are devoted to getting the best from their students. As well as supporting students with their academic studies, our tutors meet with their students on a one-to-one basis at the end of each term to provide personalised pastoral care. Students love Pembroke’s location in the heart of the City and yet just a 10-minute brisk walk from the Physics department.

**What extra activities do we offer?**
The physics society meets on average twice per term to discuss current research and papers. The physics society meets twice per term to provide personalised pastoral care. Students love Pembroke’s location in the heart of the City and yet just a 10-minute brisk walk from the Physics department.

**What characteristics do you need to be successful in this subject?**
As the language of physics is mathematics, successful students will have a strong track record in maths. The ability to use your understanding of physics to apply learnt principles to new situations is also a key skill.

**Meet our tutors**

**Professor Alfons Weber**

is the Rokos-Clarendon Fellow and Tutor in Physics at Pembroke. He is a particle physicist and specialises in studying neutrinos and developing instrumentation for research as well as for security applications.

**Professor Tim Woollings**

is a Fellow and Associate Professor in Atmospheric Physics. His research focuses on understanding extreme weather and the role of climate change in the extratropics, particularly in the North Atlantic region. Outside of Pembroke he is Joint Chair at the Met Office.

**Have you considered our joint course?**

**Physics & Philosophy**

This demanding course brings together the most fundamental subjects in the arts and the sciences. The philosophy part of the course covers logic and general philosophy in the first year, and in subsequent years there are around 30 papers which can be studied. The physics part of the course covers subjects such as mechanics, thermodynamics and relativity.

**Why choose Pembroke?**
Pembroke is one of only five colleges to have a Fellow in Philosophy of Physics - a core component of this course. Due to the wide variety of joint schools offered at Pembroke, the philosophy community within College is particularly extensive, offering students the ability to benefit from a diverse range of perspectives on philosophical matters.

**What extra activities do we offer?**
The physics society meets on average twice per term to discuss current research and hear from engaging guest speakers. The philosophy team organise a talk from a prominent philosopher each term and there is a reading group which meets regularly. As a student studying a joint honours degree you can benefit from both sets of subject activities.

“Unlike most colleges, Pembroke has a philosophy of physics tutor, James Read. He’s a great tutor with fascinating research into the Philosophy of Spacetime, which we explore on the course.”

*Catherine, Physics & Philosophy*

**What characteristics do you need to be successful in this subject?**
You do not need to have a philosophical background to study this course – but an enthusiasm for deep thinking is compulsory! Successful students in this subject will have a good physics intuition, excellent mathematical skills and an ability to think clearly, reason and engage in structured arguments.

**Meet our tutors**

**Professor Tim Woollings**

is a Fellow and Associate Professor in Atmospheric Physics. See full profile opposite.

**Professor Alfons Weber**

is the Rokos-Clarendon Fellow and Tutor in Physics at Pembroke. See full profile opposite.

**Professor James Read**

is a Tutorial Fellow in Philosophy. His research lies primarily in the philosophy of physics: in particular, in the foundations of space-time theories, the study of symmetries in physics, and the role of probability in physics.

**Want to find out more?**

[www.pmb.ox.ac.uk/physics]

[www.pmb.ox.ac.uk/physics-philo]
Meet our tutors

**Professor Hannah Smithson**

is a Tutorial Fellow in Psychology, whose research focuses on the retinal and cortical processing that underlies human vision.

**Dr Rebekah White**

is a Tutor in Psychology, whose research interests lie in the field of Cognitive Psychology.

**Professor James Read**

is a Tutorial Fellow in Philosophy. His research lies primarily in the philosophy of physics: in particular, in the foundations of space-time theories, the study of symmetries in physics, and the role of probability in physics.

**Professor Guy Kahane**

is a Tutorial Fellow in Philosophy. His research includes value theory, metaethics, applied ethics, moral psychology and the neuroscience and psychology of moral decision-making.

Why choose Pembroke?

Pembroke has a large, diverse community across the subjects in PPL, meaning there is an excellent peer support network. Due to the wide variety of joint schools offered, the philosophy community within College is particularly extensive, offering students the ability to benefit from a broad range of perspectives on philosophical matters.

What extra activities do we offer?

During term, the whole psychology community meets once a week for lunch. These informal lunches facilitate the sharing of information from practical discussions about the course and life in Oxford, through to conversations about exciting psychological discoveries. Furthermore, the philosophy team organise a talk from a prominent philosopher once per term and there is a reading group which meets regularly.

What characteristics do you need to be successful in this subject?

Successful students in this subject evaluate evidence, consider issues from different perspectives, and engage in structured arguments. For courses including Linguistics it is key to have the ability to think about language analytically and have an interest in the science of language.

Have you considered our joint Philosophy courses?

- Maths & Philosophy
- Physics and Philosophy
- Philosophy, Politics & Economics (PPE)
- Philosophy & Modern Languages
- Philosophy & Theology

Want to find out more?

www.pmb.ox.ac.uk/ppl