Admission assessments
Most applicants are required to take a subject-specific written admission assessment.
• Pre-interview assessments will be taken in late October/early November at a centre local to you (usually your school/college) – you must be registered in advance for any pre-interview assessment.
• At-interview assessments are taken when in Cambridge for interview, if interviewed.
• Apart from assessments for Medicine (see p84) and Veterinary Medicine (see p109), applicants to mature Colleges aren’t required to take any pre-interview assessments. For courses with a pre-interview assessment, they will take a written assessment at interview (if interviewed) instead.
• In addition to any subject-specific pre- or at-interview written assessment, some Colleges require applicants for some courses to take an additional College-set assessment at interview, if interviewed. See individual College websites for details.

Further information
www.cam.ac.uk/assessment

Entry requirements
Typical A Level and International Baccalaureate (IB) offers are included in the fact file for each course, along with any subject requirements. Further guidance as well as typical offers for a range of other qualifications – including Scottish and Welsh qualifications, and the Irish Leaving Certificate – can be found on p147-9.

General information about what our Admissions Tutors look for in applicants can be found on p5.

Further information
www.cam.ac.uk/entrancerequirements

Part-time and short courses
The University only offers full-time undergraduate degree courses. However, our Institute of Continuing Education (ICE) offers a wide range of part-time and short courses for academic progression, or personal or career development. See the ICE website for details at: www.ice.cam.ac.uk.
Anglo-Saxon, Norse, and Celtic

If you’re fascinated by medieval history, literature, and languages, and you relish the prospect of doing your own research using original source materials, this course – unique in the UK to Cambridge – will appeal.

A voyage of discovery

The history and culture of Anglo-Saxon England, Celtic languages and literature, and Viking exploits – Anglo-Saxon, Norse, and Celtic (ASNC) – allows you to explore a range of cultures, and to look at history, language and literature side by side.

ASNC focuses on the history, material culture, languages and literature of the peoples of Britain, Ireland and the Scandinavian world in the earlier Middle Ages.

ASNC students discover medieval history while learning one or more languages and reading great works of literature in the original languages, such as the Old English poem Beowulf, the epic medieval Irish tale Táin Bó Cúailnge (The Cattle Raid of Cooley) and Icelandic sagas. Exactly which areas you study and to what depth is largely up to you, and to support your learning Cambridge has rare and exceptional resources to offer in the University Library, the College libraries, and in the Fitzwilliam and other museums.

What are we looking for?

No previous knowledge of the subject is expected or required, all languages are taught from scratch and we don’t assume that students have studied early medieval history or literature at school. However, we do require passion and commitment, and look for evidence of your general ability in arts and humanities subjects.

After ASNC

This unusual and challenging degree develops your powers of argument and sharpens your powers of analysis. It equips you for a wide range of careers where intellectual and analytical skills are important. ‘Asnac’ (as they like to be called) graduates can be found in a wide range of careers. Some take advantage of the specialist opportunities open to them and do research and teaching in schools and universities, or work in museums and libraries; while many others go into careers including journalism, publishing, banking, law, the Civil Service, industry and business, and even software development.

Course outline

Teaching is provided through lectures, classes, seminars and supervisions and you can expect between 10 and 15 hours of lectures and classes per week during Part I.

Years 1 and 2 (Part I)

Year 1

In the first year, you study the various disciplines which form the core of ASNC studies. There are no compulsory papers – you choose six subjects from a range of 18, and take an examination in four of them and departmental tests in the other two.

Historical subjects:
- Anglo-Saxon history
- Scandinavian history
- Gaelic History (Scotland, Ireland and the Isle of Man)
- Brittonic History (Wales, Brittany, Cornwall, the Pictish kingdoms and the North Britons)

Language and literature subjects:
- Old English
- Old Norse
- medieval Welsh
- medieval Irish
- medieval Latin
- paleography (the study of manuscrupts and handwriting)

Year 2

In your second year, you may continue to study your chosen subjects and take an examination in all six of them. Alternatively, you have the option to replace up to three of your first-year subjects with a dissertation and/or one or two papers from related courses – currently these include subjects from Archaeology, English and Modern and Medieval Languages.

Years 3 (Part II)

This is where you develop and use the skills you learned in Part I, exploring your chosen fields and applying your newly acquired knowledge in original imaginative ways.

You study four subjects selected from a range of 17 papers including, for example:
- The Conversion of Scandinavia
- Beowulf
- Advanced Medieval Irish Language and Literature
- Germanic Philology

These are designed to give you the opportunity to pursue more detailed study in your chosen areas. You may replace one of your four Part II ASNC papers with a paper from another course. The range of subjects available varies each year but currently includes: medieval English literature, medieval French literature, historical linguistics, North Sea archaeology, the archaeology of late antiquity and the migration period, and a subject from the Faculty of History. You may also replace one of your Part II subjects with a Part I paper that you didn’t offer for the examinations at the end of your second year.

In addition, you write a dissertation of between 9,000 and 12,000 words on a specific subject of your own choice within the scope of the course.

In two years I’ve studied a broad range of topics, most of which I’d never considered before, and students have lots of contact time with staff.

Clare
Archaeology

If you’re fascinated by human evolution and biology, the emergence of early civilizations, ancient cultures and languages, or how we interact with our heritage and environment, you can study it in our Archaeology course.

Archaeology at Cambridge

Our course encompasses Archaeology, Assyriology, Egyptology and Biological Anthropology. Its flexibility means you can either specialise from Year 1, or opt for a broad start before concentrating on up to two subjects from the second year.

- Archaeology uses material evidence to explore the nature and development of particular societies and to explain the variations and commonalities of the human past.
- Assyriology is the study of the languages, cultures, history and archaeology of ancient Mesopotamia (Sumer, Babylonia and Assyria).
- Egyptology is the study of the history, languages, society, archaeology and religion of ancient Egypt.
- Biological Anthropology explores human evolution, biology and behaviour, and the interaction between biology and culture.

Teaching and resources

Archaeology has been taught at Cambridge for more than a century and our staff are at the forefront of research, involving students through fieldwork and research projects.

Our excellent resources include the Cambridge Archaeological Unit, a well-equipped IT suite, purpose-built laboratories and dedicated libraries. In addition, the Museum of Archaeology and Anthropology and the Fitzwilliam Museum provide access to extensive collections of primary sources of world importance.

After Cambridge

Our course offers the theoretical foundation and training in standard methods and specialised techniques required for academic and professional practice; and our graduates include leading figures in their discipline – Colin Renfrew, Louis Leakey and David Pilbeam to name just a few.

The intellectual versatility and transferrable skills – such as critical thinking, text analysis, data handling and collaborative working – that our students develop also include such concepts as Human, Social and Political Sciences (HSPS).

Teaching in Years 2 and 3

Year 1 (Part I)

You pick three from seven core archaeology, language and biological anthropology options (certain papers are advised for some Year 2 subjects) – see details online. Your fourth can be another core paper, a psychology paper, or one from Human, Social and Political Sciences (HSPS).

Year 2 and 3 (Parts IIA and IIB)

You can pursue one of four single-subject tracks or one from two two-subject tracks – Archaeology and Biological Anthropology or Assyriology and Egyptology (details online).

Course outline

In Year 1, you have between six and eight lectures and one or two supervisions each week, plus weekly language classes and/or practicals (where appropriate).

You’re assessed each year, principally through written exams but some papers include assessed practicals/fieldwork. Most students also write a 10,000 word dissertation in Year 3.

Assyriology

Year 2 (Part IIA)

You take four papers: Mesopotamian archaeology, Akkadian language, and two from other course options (one can be from Classics or HSPS). You also undertake a four-week study tour and/or fieldwork.

Year 3 (Part IIB)

You take advanced Akkadian language and Mesopotamian archaeology papers, and one on Mesopotamian history or culture, or Sumerian language. The fourth is one of around 20 options or a dissertation.

Egyptology

Year 2 (Part IIA)

You take papers in Egyptian language and archaeological methods and concepts, plus two papers on society, religion and death in Ancient Egypt. You also undertake a four-week study tour and/or fieldwork.

Year 3 (Part IIB)

Alongside a core Egyptian language paper and two Egyptian archaeology papers, all students write a dissertation.

Biological Anthropology

Year 2 (Part IIA)

Three compulsory papers explore behavioural ecology, human origins, and health and disease. You select your fourth from options offered elsewhere in this course or HSPS.

Year 3 (Part IIB)

You take a theory and practice paper, and three more surveying current issues across biological anthropology and the other course subjects (you can substitute one of the last three papers for a dissertation or a paper from HSPS).
Architecture

The only Cambridge degree that combines the intellectual challenges of both arts and sciences with the opportunity for creative design.

Exceptional learning environment
The Department of Architecture at Cambridge is an exciting place to study. Regularly lauded as one of the leading architecture schools in the world, students study under the guidance of world-renowned researchers and ground-breaking practitioners. Creativity, curiosity and strong intellectual grounding are central to the course. Our innovative design programme – delivered by tutors working at the cutting edge of contemporary architecture – is balanced with outstanding teaching in the history and philosophy of architecture, contemporary culture and urbanism, as well as construction, structural design and environmental design. Our small, friendly Department has a very good staff to student ratio, and the supportive community atmosphere gives students the opportunity to push the boundaries of the field and to extend their own abilities in exciting new directions. Facilities include a superb library, studios and spaces for larger installations, and reprographics areas and workshops.

Professional qualification
Successful completion of our full three-year undergraduate course carries exemption from the Architects Registration Board (ARB)/Royal Institute of British Architects (RIBA) Part 1 – the first stage in qualifying as an architect.

The Department also offers a Masters in Architecture and Urban Design, which carries exemption from ARB/RIBA Part 2, and an ARB/RIBA Part 3 course (the final qualifying stage).

What we’re looking for
You must have an enthusiasm for both the arts and the sciences. The ability to draw and an interest in the history of art and architecture are essential, as is a knowledge of mathematics to at least a good GCSE standard.

Portfolio
Admissions tutors want to see something that illustrates your interests, experience and ability in the visual and material arts. This may include drawings, paintings, sculpture and/or photography. See the Department website for more advice.

Careers and research
Many graduates continue into professional training, but some enter other creative fields or research. We have a long-standing tradition of research excellence, in areas such as history and philosophy of architecture, environmentally responsible design, architecture and the moving image, urban design and transport planning, and disaster relief.

Course outline
You’re taught in our studio – where you have your own dedicated design space – two days a week, during which you’re set projects that require you to produce models and drawings to communicate your ideas. You’re supervised on studio work in individual tutorials and group critical reviews, which encourage you to explore different approaches and develop essential design skills. The resulting portfolio accounts for 60 per cent of your overall marks each year.

Lectures, classes and visits to completed buildings or buildings under construction/renovation cover the rest of the curriculum. In addition to the two studio days, in the first year you typically attend six or seven lectures each week; and three classes and three small-group supervisions each fortnight, for which you’re required to complete essays and undertake preparation.

Year 1 (Part IA)
The studio work introduces the possibilities of architecture, with an emphasis on understanding and developing proficiency in traditional modes of architectural representation – models, collage, perspectives, elevations, plans and sections. You also master basic CAD skills, used in studio presentations. A compulsory study trip abroad usually takes place during the Easter vacation.

You take five lecture-based papers:
• Introduction to Architectural History/Theory (pre-1800)
• Introduction to Architectural History/Theory (post-1800)
• Fundamental Principles of Construction
• Fundamental Principles of Structural Design
• Fundamental Principles of Environmental Design

Assessment is through coursework and written examinations.

Year 2 (Part IB)
You choose from various options for studio work, with projects ranging in scale from mapping studies and interior interventions, to reasonable-sized buildings. Emphasis is on integrating the technical skills learnt in Part IA and in the ongoing Part IB lectures with your studio output. A voluntary study trip is usually offered.

In addition, you take four papers that build on your Part IA knowledge:
• Studies in History and Theories of Architecture, Urbanism and Design
• Principles of Construction
• Principles of Structural Design
• Principles of Environmental Design

For the first, you submit two essays and sit a written examination. The remaining three papers are assessed by a written exam in each.

Year 3 (Part II)
You choose from three studio options that vary in approach but all require you to produce a building design at the end of the year, the technical realisation of which is allied to a coherently framed conceptual approach. Again, a voluntary study trip is usually offered.

Four lecture-based papers together carry 20 per cent of your overall marks:
• Advanced Studies in Historical and Theoretical Aspects of Architecture and Urbanism
• Management, Practice and Law
• Advanced Studies in Construction Technology, Structural Analysis and Environmental Design Related to Case Studies
• Architectural Engineering (examined entirely by coursework)

A written dissertation of 7000–9000 words on a topic of your choice accounts for the remaining 20 per cent of your marks.

Architecture at Cambridge doesn’t only deal with buildings – we think of people, places, materials, philosophy and history, and only then consider the actual building!

Kathryn

Fact file

UCAS code
K100

Duration
Three years – BA (Hons)

2016 entry
Applications per place: 8
Number accepted: 44

Typical offers require
A Level A*A*A
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
Applicants are expected to show a portfolio of recent work at interview (see above)
No specific subjects required by all Colleges
Some Colleges require A5 or a Level/IB Standard or Higher Level Mathematics or Physics

Admission assessment
At interview written and practical assessments, if interviewed (see p139)

Colleges
Available at all Colleges except Homerton, Hughes Hall and St Catharine’s

Location
Map reference L. See p(14-5)

Related courses

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<td>History of Art</td>
<td>72</td>
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<td>Land Economy</td>
<td>76</td>
</tr>
</tbody>
</table>

Open days 2017
College open days (art)
Cambridge Open Days – 6 July, 7 July (see p150)

01223 332950
www.arct.cam.ac.uk
www.arct.cam.ac.uk
You don’t need any prior knowledge of Arabic, Chinese, Hebrew, Japanese or Persian to study them here but you do need imagination, perseverance, curiosity and a sense of adventure. You can also combine Arabic, Hebrew or Persian with a modern European language.

Broaden your horizons
Within the Asian and Middle Eastern Studies (AMES) course, the area we study stretches from Japan in the East to Morocco in the West, and from classical times to the present day. To study one of these cultures through its language is not only to develop a set of practical skills and knowledge that can be used later in many different ways, but also to engage with different ways of understanding our shared world.

We don’t require you to have studied any of the AMES subjects at school; the best preparation is for you to explore for yourself what interests you in the culture you choose to study (see the Faculty website for suggestions).

Flexibility: our range of options
Our course is flexible and numerous options and combinations are available. You should indicate which language(s) you’re interested in studying in your SAQ (see p7).

- You can study Arabic, Chinese, Hebrew, Japanese or Persian.
- You can combine Arabic, Hebrew and Persian with each other, or with a modern European language (if you have an A Level/IB Higher Level or equivalent in the European language) from Year 1; or with Hindi or Sanskrit from Year 2 (no more than two languages can be studied at one time).
- Chinese and Japanese cannot be combined with another language. However, those studying Japanese can take Korean as an option in Year 4.

Chinese gives you China in its own words. You encounter a sophisticated civilization and the most vibrant economy in the world today. You delve into its 3,500 years of recorded history, poetry and philosophy to understand how they shaped the tumultuous changes of modern times, and to engage with contemporary society.

In Japanese, you master the spoken and written forms of modern Japanese and also get unique training in reading pre-modern Japanese. You gain a comprehensive understanding of Japan, its history, culture, politics and society, and learn about the wider East Asia region too.

Arabic is the language of the Qur’an and of a rich literary tradition covering fields as diverse as the sciences, history and religious studies, and poetry. It’s the key to a medieval culture which kick-started the European Renaissance. Our course gives you access both to this and to the modern societies, cultures and thought fed by this heritage.

Persian is another great language of Islam with a world famous poetic tradition, and vibrant literary heritage. Our course introduces you to both the classical tradition and contemporary Iranian culture. Hebrew offers classical (Biblical) and/or modern Hebrew and its literature, and the history and culture of Israel and the modern Middle East. You can also study Aramaic.

For my dissertation, I was able to investigate any course-related subject attracting my attention, and pursuing those investigations at length was my degree high point.

Fraser
Asian and Middle Eastern Studies (cont.)

Our teaching
Good knowledge of the language(s) is central to our course. Part I (Years 1 and 2) gives a strong grounding, and in Part II (Years 3 and 4) you study advanced language so that by the end of it you can speak fluently and read confidently. Alongside the language(s), there’s a wide range of topics on offer (depending on language), from which you can choose according to your interests – history, literature, religion, anthropology, linguistics, film.

Living and learning abroad
The third year is spent abroad – a great opportunity to immerse yourself in the culture you’re studying and improve your language skills. Various Faculty-approved institutions are available. Chinese and Japanese students study at a university in the appropriate country. Arabic, Persian and Hebrew students have some choice of which country they go to and what they do. Students generally take an approved language course or study at a local university, and some combine this with voluntary work.

Versatility: your choice of careers
The range of career options open to graduates is vast. Besides those who go into research, many graduates use their subject directly in subsequent employment. Examples include the media, business and commerce, tourism, teaching overseas, the Civil Service (especially the Foreign Office), NGOs, or international scientific agencies. Even if you choose not to stay in a related field, employers are often impressed by your choice to study a difficult language. Our graduates have also gone into banking, marketing and law.

Fact file

UCAS code
TT46

Duration
Four years – BA (Hons) (Year 3 spent abroad)

2016 entry
Applications per place: 3
Number accepted: 38

Typical offers require
A Level A*A
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
No specific subjects required by all Colleges
Some Colleges require An A Level/IB Higher Level language (ancient or modern), A Level/IB Higher Level in the European language (if you want to combine with a European language)

Admission assessment
Pre-interview written assessment
(see p139 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference S (see p154-5)

Related courses

<table>
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<th>Course</th>
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<td>History</td>
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<td>History of Art</td>
<td>72</td>
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<tr>
<td>Linguistics</td>
<td>80</td>
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<tr>
<td>Modern and Medieval Languages</td>
<td>89</td>
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<tr>
<td>Theology, Religion, and Philosophy of Religion</td>
<td>106</td>
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Open days 2017
TBC – booking required, see the Faculty website
College open days (arts) Cambridge Open Days – 6 July, 7 July (see p106)

Admission assessment
Pre-interview written assessment
(see p139 and www.cam.ac.uk/assessment)

Course outline
Teaching is through lectures, seminars/classes and supervisions – you can typically expect 12-14 hours of teaching each week. Assessment includes written and oral examinations, and coursework.

Depending on your language(s), you take four to six papers in Years 1, 2 and 4, and write a dissertation of 12,000 words in your final year. You spend Year 3 abroad. See the website for full course details.

If you combine a European language with a Middle Eastern language, you study both roughly equally in Year 1 but after that you can balance them as you wish. If you combine both to Part II, you spend Year 3 in the Middle East.

Chinese
Years 1 and 2 (Part I)
You receive intensive training in spoken and written Mandarin, as well as a grounding in reading literary and classical Chinese, and Chinese and East Asian history from ancient times to the present day.

Year 4 (Part II)
In Year 4, you write a dissertation and choose from specialist papers on topics as varied as religion, state and institutions in dynastic China, Chinese linguistics, contemporary society or literature, and war in the making of modern China.

Japanese
Years 1 and 2 (Part I)
In Year 1, you study written and spoken Japanese and take a paper on East Asia. In Year 2, you continue your language and choose from papers on Japanese history, literature, society, politics, classical Japanese, East Asian cinema, and some Chinese Studies options.

Year 4 (Part II)
Alongside your dissertation in Year 4, you choose from special papers which vary each year. Past topics include Japanese culture, history, advanced classical Japanese, and politics. There’s also a Korean language option.

Arabic and Persian
Years 1 and 2 (Part I)
You study written and spoken Arabic, and/or modern Persian, and an introduction to the contemporary Middle East and/or its history. In Year 2, you can study classical and modern literature, history, anthropology and/or Islam.

Year 4 (Part II)
In Year 4, you write a dissertation and the second-year subjects are offered again, but in more depth and specialisation (eg modern Islamist thought, Islamic Spain, travel writing).

Hebrew
Years 1 and 2 (Part I)
You’re introduced to the Hebrew language and its literature, as well as the contemporary culture of Israel and the history and culture of the Middle East. You can also take other subjects such as linguistics and Judaism.

Year 4 (Part II)
In Year 4, in addition to your dissertation, you have a range of options to choose from, such as Hebrew literature, Israeli cultural studies, Israeli cinema, comparative Semitics, Aramaic, and the pre-modern and modern Middle East.

The small class sizes mean you get to know your teachers and classmates really well, so there’s a real sense of community within the Faculty.

Sarah
Chemical Engineering

Chemical engineers design and operate industrial processes that convert raw materials into valuable products. The need for more sophisticated products and sustainable processes means chemical engineers are in great demand.

Chemical Engineering at Cambridge
Our course concentrates on the scientific principles that underpin chemical and biochemical engineering. The aim is to produce graduates that meet the needs of today's process industries by providing a thorough understanding of the subject, technical competence and transferable skills. The underlying theory is complemented by lectures and projects that teach process and chemical product design.

We have strong links with industry. The course is supported by a consortium of 10 industrial companies which provide input on content and assist with teaching. These links also mean that there are opportunities for vacation placements with some of the world’s top companies.

Teaching and facilities
Our Department enjoys a reputation for excellence in its teaching and research, regularly topping national league tables. The Department moved to a new purpose-built building in 2016 that provides the highest quality teaching and research facilities.

Qualifications and accreditation
It’s possible to graduate with a BA degree after three years. However, virtually all students stay for the fourth year leading to the BA and MEng degrees (progression to the fourth year is dependent on satisfactory performance). The four-year course is accredited by the Institution of Chemical Engineers, meaning that after graduation you can apply for Chartered Engineer status once you have four years of relevant experience without taking further exams.

After Cambridge
Within chemical engineering there are many well-paid career opportunities. You might work as a field engineer, be part of a research team, or become a senior manager within industry. Chemical engineers also secure jobs outside the discipline because of their broad range of skills. About 50 per cent of our graduates go into the chemical, process and food industries; 20 per cent go into further education and research. While 15 per cent go on to a research career, 5 per cent go on to become a chemical engineer and are taken up by a similar number of students.

Course outline
You’re taught primarily through lectures, which are supported by projects, laboratory classes, supervisions and coursework.

In a typical week you attend 10 lectures and have two supervisions. Assessment is by written exams during the final term of each year, and coursework which makes an increasing contribution to your marks each year.

Years 1 and 2 (Part I)
Year 1
Chemical engineers spend their first year studying either Engineering or Natural Sciences. These routes provide equally good preparation for becoming a chemical engineer and are taken up by a similar number of students.

Year 2
From Year 2, you’re based within the Department of Chemical Engineering and Biotechnology. You study compulsory topics within five themes:

- fundamentals – fluid mechanics, mass and heat transfer, thermodynamics
- process operations – reactors, separators, biotechnology
- process systems – safety, economics
- mathematical methods – mathematics
- enabling topics – depending on your first-year subject, you have additional lectures and practicals on either chemistry or mechanical engineering

You also take laboratory classes and undertake regular assessed project work. Towards the end of the year, you perform the mechanical design of an item of process equipment such as a heat exchanger.

Year 3 (Part III)
The third year includes further compulsory topics within four themes:

- fundamentals – fluid mechanics, heat transfer, thermodynamics
- process operations – reactors, separators, bioprocessing, particle processing
- process systems – process dynamics and control, process synthesis, safety
- enabling topics – materials, statistics

After the written exams in the third term, you undertake a group project that lasts five weeks of full-time work to design a modern industrial process. You consider all aspects of engineering design (including specification of equipment and control procedures), safety, environmental impact and economic assessment. The design project brings together all the taught subject matter whilst giving you the opportunity to work in a team on an open-ended problem.

Year 4 (Part III B)
You undertake a project on chemical product design and take a compulsory paper on environmental aspects of chemical engineering.

You choose six further topics from a list of optional papers which changes every year to reflect the research interests of academic staff. Some are advanced chemical engineering topics – past examples have included pharmaceutical engineering, electrochemical engineering, rheology and processing, and computational fluid dynamics – and some are broadening material topics from outside the discipline (past examples have included healthcare biotechnology, a foreign language, and entrepreneurship). In addition, you undertake a research project. This might involve experimental, theoretical and/or computational work. Some projects support ongoing Department research, while others are ‘blue sky’ investigations leading to new research programmes. Successful projects sometimes lead to students becoming authors of publications in scientific literature.

Qualifications and accreditation

Typical offers require
A Level/IB Higher Level
7A*–766, 4A – 443, with 776 at Higher Level
Other qualifications See p147–9

ENGINEERING ROUTE
All Colleges require A Level/IB Higher Level
Chemistry, Mathematics and Physics
Some Colleges require AS or A Level Further
Mathematics, STEP (see p149)

NATURAL SCIENCES ROUTE
All Colleges require A Level/IB Higher Level
Chemistry and Mathematics
Some Colleges require A Level Further
Mathematics, A Level/IB Higher Level Physics, a third science/mathematics subject

Admission assessment
Pre-interview written assessment
(see p339 and www.cam.ac.uk/admissions)

Colleges
Available at all Colleges

Location
Map reference W (see p154–5)

Related courses

<table>
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<th>Natural Sciences</th>
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Open days 2017
College open days (Science)
Cambridge Open Days –
6 July, 7 July (see p150)

01223 334777
admissions@ceb.cam.ac.uk
www.ceb.cam.ac.uk
Classics at Cambridge

The Faculty of Classics is one of the most dynamic of its kind, with an exceptional reputation for teaching and research.

Our course encompasses the history, culture, archaeology, art, philosophy and linguistics of classical antiquity and the study of original texts and artefacts. You can either specialise in a particular field or retain the breadth with which the course starts.

Facilities and resources

The Faculty’s facilities include a well-stocked library and our own Museum of Classical Archaeology. In addition, you have access to the holdings of the Fitzwilliam Museum, where some classes take place. There’s a thriving student society, and the renowned Cambridge Greek Play (produced in the original language) is regularly staged by a professional director. We also offer various undergraduate prizes, bursaries and travel grants.

The courses

The three-year course is usually for students with A Level/IB Higher Level Latin (regardless of whether they have Greek). We offer an intensive ancient Greek programme for those with little or no Classical Greek.

The four-year course is for those with little or no Latin, and offers a preliminary year which focuses on Latin language and Roman culture. Years 2, 3 and 4 are identical to the three years of the three-year degree. If you have A Level/IB Higher Level Classical Greek but not Latin, you may be advised to take the four-year degree (depending on circumstances – please contact the Faculty/a College admissions office for guidance).

Careers

Employers have a high opinion of Classiscists because they’re hard-working, articulate, accurate and efficient, take new tasks in their stride and can master situations intelligently.

Some graduates go into research and teaching in schools and universities, or work in libraries and museums. However, most go into other careers – in law, schools and universities, or work in libraries and museums.

Your linguistic and literary comprehension and essay writing skills.

You take six papers, including a paper from each of the following four compulsory groups:

• Greek translation
• Latin translation
• Greek literature, eg Athens on Stage
• Latin literature, eg Roman Youth

The remaining two papers are chosen from four on other subjects:

• history
• philosophy
• art and archaeology
• philology

Further optional papers on prose or verse composition in both languages are available if you wish to develop your confidence and creativity in manipulating language.

Assessment is by end of year exams. Classics here deserves its world class reputation – ancient languages taught by the field’s best teachers, and opportunity to study everything from warfare and politics to architecture and philosophy.

Emma

Classics

52 www.classics.cam.ac.uk

339540

schools.liaison@classics.cam.ac.uk

www.classics.cam.ac.uk

Open days 2017

17 March (Oxford and Cambridge Classics open day in Oxford) – booking required, see the Oxford Classics website

College open days (arts)

Cambridge Open Days – 6, 7 July (see p150)
Computer Science

Computer science is a fast-moving field that brings together disciplines including mathematics, engineering, the natural sciences, psychology and linguistics. Our course provides you with skills highly prized in industry and for research.

Computer Science at Cambridge
Cambridge was a pioneer of computer science and continues to lead its development. There are more than 1,000 specialist computing and advanced technology companies and commercial laboratories in the area (known as ‘Silicon Fen’), and many support our teaching and employ our graduates.

Our course is broad and deep – giving skills to create future technology. All aspects of modern computer science are covered, along with the underlying theory and foundations in economics, law and business. You also develop practical skills, such as programming (in various languages, eg ML, Java, C/C++, Prolog) and hardware systems (eg chip design using Verilog).

Facilities and work experience
Our students benefit from the Computer Laboratory's cutting-edge research and extensive facilities. The purpose-built Computer Laboratory is packed with the latest technology, advanced lecture theatres, dedicated practical rooms, a well-stocked library, and even a café. Group projects during the course, where small teams of students deliver a product to an external client, ensure relevant industrial experience. Projects often lead to commercialisation, licensing or employment.

Accreditation
Our course is accredited by the British Computer Society (BCS) and by the Institution of Engineering and Technology (IET), and contributes towards professional membership (MBCS, MIET) and chartered status (CEng, CSci, CITP).

Careers
Our graduates' knowledge and skills embody principles which will outlast today’s technology, making them highly sought after by industry and commerce alike. For example, companies at our annual recruitment fair collectively seek to recruit more than our entire annual number of graduates.

About half of our students go on to work in the computer industry, while a fifth pursue further study and careers in teaching and research. Many graduates have founded successful companies while others have easily found employment in software, hardware, the games industry, finance, communications and commerce.

To get an idea of what's currently on offer to our graduates, visit: www.cl.cam.ac.uk/supporters-club.

Course outline
Teaching is provided through lectures, practical classes and supervisions. In Year 1, you can typically expect 20 hours of teaching every week, including up to 12 lectures and practical classes.

Assessment is by three-hour examinations taken in the final term each year. Practical work is also assessed in the second and third years, and you submit a dissertation on your third-year project.

Please note that successful applicants are required to do some preparatory reading and complete a pre-arrival online course before the start of the first term. Students will be sent details after their place is confirmed.

Year 1 (Part IA)
You take four papers, including two compulsory Computer Science papers – covering topics such as foundations of computer science (taught in ML), Java and object-oriented programming, operating systems, and digital electronics – and at least one Mathematics paper. The fourth paper is chosen from:

- a third Computer Science paper (required in Year 2 if not taken in Year 1)
- a social psychology paper
- one of Chemistry, Earth Sciences, Evaluation and Behaviour, Physics or Physiology of Organisms, from Natural Sciences

Alternatively, you may take the compulsory first-year Computer Science papers alongside two of the first-year papers of the Mathematics course (see p118) – known as Computer Science with Mathematics.

You should indicate your first-year combination – Computer Science, Computer Science with Social Psychology, Computer Science with Natural Sciences, or Computer Science with Mathematics – in your UCAS application.

Year 2 (Part IB)
You take four papers, spanning core topics:

- theory – including logic and proof, computation theory
- systems – including computer design, computer networking
- programming – including compiler construction, advanced algorithms
- applications and professionalism – including artificial intelligence, graphics, security

You also undertake a group project which reflects current industrial practice. Students who don’t take the third Computer Science paper in Year 1 must take it in Year 2, instead of one of the Part IB papers (which must then be taken in Year 3).

Year 3 (Part II)
You choose 15 topics from a large selection which allow you to concentrate more on systems, theory or applications (some options may not be available to students taking a Year 2 paper in Year 3). Topics usually include:

- mobile and sensor networks, principles of communication
- specification and verification of hardware and software, semantics
- quantum computing, bioinformatics
- human-computer interaction, natural language processing, e-commerce
- advanced artificial intelligence, advanced graphics

All students also work on a substantial project demonstrating their computer science skills, writing a 12,000 word dissertation on it. Projects are often connected with current Cambridge research and many utilise cutting-edge technology.

Year 4 (Part III, optional integrated Masters)
The fourth year is designed for students considering a career in academics or industrial research. You explore issues at the very forefront of computer science and undertake a substantial research project. Progression to Part II is dependent on Part II examination achievement. Successful completion of Part II leads to the MEng qualification, as well as the BA degree attained at the end of Part II.

I’d never studied Computer Science formally, so didn’t know what to expect. I’m convinced I made the best choice and can’t imagine enjoying another course more!

Chloé
Our Economics course provides a rounded, rigorous education in economics which is valuable for a wide range of career paths.

Economics at Cambridge

Our course provides a sound understanding of core, pure and applied economics. However, while you study economics in considerable depth in this specialised degree, you employ ideas and techniques from many other disciplines too; including mathematics and statistics, history, sociology and politics. Therefore, our graduates are extremely well-qualified for a wide range of jobs and further courses.

Teaching and resources

Past and present Faculty members, such as Alfred Marshall and John Maynard Keynes, have played a major role in the subject’s development and several have been awarded the Nobel Prize in Economics (Sir John Hicks, James Meade, Sir Richard Stone, Sir James Mirrlees and Amartya Sen). The present Faculty remains committed to using economics to improve public policy and management consultancy.

Careers and research

At Cambridge, you develop skills in understanding complex arguments, analysis of practical issues and of data, and effective communication. Such skills are valuable in many careers, but particularly in professional, financial and managerial occupations. They also provide an advantageous foundation for numerous Masters degree courses.

Many graduates go on to professional training in chartered accountancy, actuarial work and similar fields. Others are employed by financial institutions, or as professional economists in industry, government and management consultancy.

Other benefits for Cambridge Economics students include access to an extensive range of statistical databases and software, and the Marshall Library of Economics, which holds a comprehensive collection of books, journals and other papers in economics. The student-run Marshall Society organises social events and informal lectures from distinguished visiting speakers.

Course outline

Teaching is provided through lectures, classes and supervisions and you can expect between 10 and 15 lectures each week in the first year. Assessment is through formal written examinations that take place at the end of each year and the compulsory dissertation in Part IIB. Typically, you have one three-hour exam for each paper covered that year. There is also a project within the Econometrics paper in Part IIA.

Year 1 (Part I)

Part I provides an introduction to the subject, a common core of knowledge which can subsequently be extended. There are five compulsory papers:

- Microeconomics
- Macroeconomics
- Quantitative Methods in Economics

Through these papers you cover topics such as supply and demand, the role of prices and market, employment, inflation, the operation of financial institutions and monetary policy.

The Quantitative Methods paper provides an introduction to the use of mathematical and statistical techniques in economics, and is assessed by a written exam.

Year 2 (Part IIA)

Part IIA consists of three compulsory papers:

- Microeconomics
- Macroeconomics

You also take one optional paper, chosen from:

- International Trade and Development
- Modern Societies
- Mathematics and Statistics for Economists

Many of the topics covered in these papers provide a theoretical foundation for the later years of the course.

Year 3 (Part IIB)

The final year consists of two compulsory papers:

- Political and Social Aspects of Economics
- British Economic History

In addition, you take two optional papers and write a compulsory dissertation of 7,500 words.

One of the objectives of the final year is to extend your knowledge of economic theory and train you to apply this theory to practical issues and public policy. Therefore, the optional papers available can vary from year to year but recent examples include:

- Economic Theory and Analysis
- Political Economics
- Banking and Finance
- Public Economics
- The Economics of Developing Countries
- Industry
- Theory and Practice of Econometrics
- World Depression in the Interwar Years
- The Politics of Europe
- The Political Economy of Capitalism
- The Family

I’d definitely recommend Economics here. The teaching’s great and the course is extremely broad in your first year, then you can specialise more in the areas you enjoy.

Ares
Education

Education is one of the most powerful means for change and growth in the modern world. If you’re interested in the psychology, politics or social and cultural contexts of education and learning, you can study it on our Education course.

Education at Cambridge

The course at Cambridge is a rigorous and rewarding interdisciplinary degree. You follow one of three tracks, combining in-depth study of a particular field of interest with an examination of wider educational and social issues.

- The Education, Psychology and Learning track focuses on education from a psychological perspective; exploring human development and education in a variety of social and cultural environments.
- In Education, Policy and International Development you consider historical and contemporary discussions concerning these areas, and education’s role in economic and social change.
- Education, English, Drama and the Arts combines the study of drama and/or English literature with key issues in education, such as debates around creativity, learning and culture.

Facilities and resources

The Faculty of Education has excellent resources and state-of-the-art research facilities, including a psychology laboratory and a library that houses one of the UK’s best education collections. Active research forms the foundation of our teaching so you’re taught by academics at the forefront of their fields and who specialise in cutting-edge research.

Further study and professional qualifications

Our course provides excellent preparation for a wide range of Masters and doctoral research programmes, both at Cambridge – each track has close links to related MPhil programmes within the Faculty – and elsewhere. Alternatively, for those intending to teach, the course provides a foundation from which to proceed to some initial teacher training courses (eg a PGCE).

After Cambridge

The career options for graduates are extremely varied and they find employment in a wide range of occupations in the UK and abroad. As well as further study and teaching, our students have gone into research, educational psychology and neuroscience, publishing, and the Civil Service. Others now work in government policy and administration, the media, theatre, heritage and museum education, HR, business and consultancy, charities and NGOs, and international development.

Fact file

UCAS code

X300

Duration

Three years – BA (Hons)

2018 entry

Places available: 40

Typical offers require

A Level A*A*A

IB 40-42 points, with 776 at Higher Level

Other qualifications See p147-9

No specific subjects required by all Colleges

Some Colleges require A Level/IB Higher Level in a subject relevant to the track you want to study

Admission assessment

At-interview written assessment, if interviewed (see p38 and www.cam.ac.uk/assessment)

Colleges

Available at all Colleges except Corpus Christi, Girton, King’s, Murray Edwards, Newnham, Pembroke, Peterhouse, St Catharine’s, Sidney Sussex, Trinity and Trinity Hall (Education, English, Drama and the Arts track not available at Emmanuel)

Location

Map reference N (see p154-5)

Course outline

In your SAQ (see p7) you should indicate which track you’re interested in studying. You attend four to six lectures and seminars, and one or two hours of supervision per week in the first year. You’re assessed at the end of each year. Depending on the papers studied, this will be through coursework, written examination, or a combination of both. In the third year, all students also submit a dissertation.

Year 1 (Part IA)

You take four papers, including two compulsory Education papers:

- Critical Debates in Education – introducing major themes in education and Faculty research
- Language: Communication and Literacies – exploring the social, psychological and material context within which spoken language and literacy are developed

Your two remaining papers are determined by the track you’re following:

- Education, Psychology and Learning – Learning and Human Development, and Introduction to Psychology
- Education, Policy and International Development – Education, Global Inequalities and Social Justice, and a paper from choices in the Human, Social, and Political Sciences (HSPS) and Geography courses
- Education, English, Drama and the Arts – Poetics, Aesthetics and Criticism, and either Drama Production or Literature and Culture

Year 2 (Part IB)

In Year 2, you take five papers. Two are compulsory – Designing Educational Research (a project in research design), and The Emergence of Educational Thinking and Systems (covering historical and philosophical perspectives on key aspects of education) – and you choose your third from several other education topics.

Your other two papers are track dependent:

- Education, Psychology and Learning – Formal and Informal Contexts of Learning, and a psychology paper
- Education, Policy and International Development – International Issues in Inclusion and Diversity in Education, and a paper from the HSPS course
- Education, English, Drama and the Arts – two of International Literatures, Arts and Cultures; Theatre Practice and Production; one paper from a range offered in the English course

Year 3 (Part II)

You take five papers in the final year. All students take at least two papers on particular issues in education and write a dissertation of 8,000–10,000 words. For the fourth, you can take another issue in education paper, submit a second dissertation, or choose a paper from options in other relevant courses.

Your final paper is track specific:

- Education, Psychology and Learning – Education, Neuroscience and Society
- Education, Policy and International Development – Critical Debates in Education, Policy and International Development
- Education, English, Drama and the Arts – either Children’s Literature, or Performance, Education and Society

If university is meant to open rather than close your mind, then this is the course to do that.

Olivia

Related courses

Open days 2017

College open days (arts) Cambridge Open Days – 6 July, 7 July (see p150)

English 64

Geography 66

History 68

Human, Social, and Political Sciences 74

Psychological and Behavioural Sciences 104

01223 767671

outreach@educ.cam.ac.uk

www.educ.cam.ac.uk/undergrad
Engineering

Engineering is about designing processes and making products to solve real-world problems. Our course enables you to develop your engineering knowledge, skills, imagination and experience to the highest levels in readiness for your future career.

Engineering at Cambridge
The Cambridge course is unique. It allows you to keep your options open while equipping you with all the analytical, design and computing skills that underpin modern engineering practice.
Part I (Years 1 and 2) provides a broad education in engineering fundamentals, enabling you to make a genuinely informed choice about the area in which to specialise (many students change direction as a result).
Part II (Years 3 and 4) then provides in-depth training in your chosen professional discipline.

Department and facilities
The Department is a leading international centre for research, consistently ranked the highest amongst British universities. We also have strong links with industry, with many research projects funded by industrial companies.
Our facilities are excellent: the new Dyson Centre for Engineering Design provides access to traditional hand and machine tools, as well as modern computer-controlled machinery and rapid prototyping; the Design and Project Office is equipped with more than 80 workstations; and the library has 30,000 books and takes about 350 journals. The Department’s Language Programme offers specialised courses at all levels in French, German, Spanish, Chinese and Japanese.

Industrial experience
You’re required to complete six weeks of industrial experience by the end of the third year, obtained by deferring entry or during vacations. Our full-time Industrial Placement Co-ordinator helps deferred entrants and undergraduates to find suitable placements (in the UK and abroad) and sponsorship.

Exchange programmes
A small number of students spend their third year studying abroad through our exchange schemes with École Centrale Paris and the National University of Singapore (NUS).

Accreditation
The course is accredited by the Engineering Council and by all the major institutions, including the Institutions of Mechanical Engineers (I Mech E), Engineering and Technology (IET), Civil Engineers (ICE), and Structural Engineers (InstuctE), the Institute of Measurement and Control, the Institute of Physics and Engineering in Medicine, and the Royal Aeronautical Society. An appropriate combination of Part II papers is required in each case.

The flexibility of the Cambridge course means you don’t commit yourself to one particular area before studying them at degree level.
David
Careers
When you graduate, you’re fully qualified in your chosen area, knowledgeable across the range of engineering disciplines, and able to apply new technologies in novel situations, giving you an advantage over engineering graduates from other more narrowly focused courses.
Prospects are typically excellent, for example 91 per cent of our students who graduated in 2015 were in employment or further study within six months. The average starting salary of Cambridge Engineering graduates in 2015 was £31,400.

Our students are in great demand and they go on to careers in all the major industrial and commercial sectors.

Positions currently held by some of our graduates include
- careers in all the major industrial and commercial sectors.
- Prospects are typically excellent, for example 91 per cent of our students who graduated in 2015 were in employment or further study within six months.
- The average starting salary of Cambridge Engineering graduates in 2015 was £31,400.

Entry requirements for Engineering

<table>
<thead>
<tr>
<th>Year 1 (Part IA)</th>
<th>Year 2 (Part IB)</th>
<th>Year 3 (Part IIA)</th>
<th>Year 4 (Part IIB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The broad foundation of the first two years (Part I) gives you an understanding of the basic principles of a wide range of subjects, together with an appreciation of the external pressures under which these ideas are likely to be applied.</td>
<td>You study eight papers on core subjects at a more advanced level:</td>
<td>Professional specialisation begins in earnest and you study 10 papers from an extensive portfolio, from which a core is associated with one of the following disciplines:</td>
<td>In Part IIB, further specialisation is possible and you select eight papers from nearly 100 options which vary each year. These papers benefit from the Department’s research and are taught by experts in the particular field.</td>
</tr>
<tr>
<td>In Year 1, you take four papers and sit a three-hour written exam in each:</td>
<td>• Mechanics</td>
<td>• Aeronautics and Astronautics Engineering</td>
<td>A major individual project occupies about half of your time. Many projects are associated with current Department research and have direct industrial input and application. Recent projects include super-tall timber high-rise design, nanotubes and graphene for polymer optoelectronics, a fitness predictor for racing cyclists, and whole-system design of tidal turbines.</td>
</tr>
<tr>
<td>• Mechanical Engineering</td>
<td>• Electrical Engineering</td>
<td>• Aerospace and Aeronautical Engineering</td>
<td></td>
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<tr>
<td>• Structures and Materials</td>
<td>• Information Engineering</td>
<td>• Bioengineering</td>
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<tr>
<td>• Electrical and Information Engineering</td>
<td>• Mathematical Methods</td>
<td>• Civil, Structural and Environmental Engineering</td>
<td></td>
</tr>
<tr>
<td>• Mathematical Methods</td>
<td>• Materials</td>
<td>• Electrical and Electronic Engineering</td>
<td></td>
</tr>
<tr>
<td>You also undertake several coursework activities and projects on topics including structural design, product design, presentation skills, drawing, laboratory experiments and computer programming.</td>
<td>In the third term, you select two topics from seven engineering disciplines plus a language option. These topics emphasise engineering design and introduce the more specialised work of the third year. Coursework includes laboratory experiments and computing exercises. Several experiments are linked around the common theme of earthquake-resistant structures. A highlight of the year is the compulsory integrated design project where you work in teams of six to design and build robot vehicles which are then tested against each other.</td>
<td></td>
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<tr>
<td></td>
<td>In addition, you take an Extension Activity selected from several topics, usually relevant to your professional discipline and, in the final term, choose two from a variety of design and computer-based projects or projects in a foreign language.</td>
<td></td>
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</tr>
</tbody>
</table>

The students on the Engineering course are very friendly, and you get to know lots of people by working on labs together.

Liz
If you have a passion for literature, we have a challenging course that will inspire you in your reading and develop your critical and imaginative abilities.

English at Cambridge
Over the centuries, many writers have studied at Cambridge: Spenser, Marlowe, Milton, Wordsworth, Coleridge, Byron, Tennyson, Forster, Plath, Hughes, Byatt and Zadie Smith. When established, the Cambridge course was considered daringly innovative and this ethos continues to shape teaching and research.

Today’s course balances a strong grounding in the core of English literature with the chance to explore literature from around the world, other art forms, the English language, and related intellectual traditions.

Teaching and resources
You are taught by some of the most eminent writers and thinkers who, between them, teach and research almost every aspect of literature. We have no set approach beyond instilling the valuable skills of critical thinking, scholarly rigour and good writing.

You have access to the vast resources of the University Library, and to the Faculty library, which houses around 80,000 books and provides computer facilities, skills training and welcoming features such as ‘Tea @ 3’.

The ethos continues to shape teaching and research.

Socially, many English students pursue interests in studio and garden. Teaching and resources

Language, and related intellectual traditions.

Teaching and resources
You are taught by some of the most eminent writers and thinkers who, between them, teach and research almost every aspect of literature. We have no set approach beyond instilling the valuable skills of critical thinking, scholarly rigour and good writing.

You have access to the vast resources of the University Library, and to the Faculty library, which houses around 80,000 books and provides computer facilities, skills training and welcoming features such as ‘Tea @ 3’.

Our modern Faculty building also includes a drama studio and garden.

Socially, many English students pursue interests in creative writing, journalism and the performing arts.

What we’re looking for
English students need an intellectual curiosity which drives them to try new things and ask probing questions. We look for reading beyond the syllabus, and for independent, well-informed critical thinking.

After English
Our students develop the skills of critical thinking, close reading and effective communication. Many draw directly on their subject and pursue careers in arts management or information management, or go into academia or teaching.

Those same skills are valued by employers in many other professions too, such as the Law, the Civil Service, industry, accountancy and social work. And, unsurprisingly, many graduates go on to work in the media, theatre and film – such as Jeremy Paxman, Emma Thompson, Stephen Fry and Sam Mendes – or become poets, novelists and playwrights.

Fact file
UCAS code Q300
Duration Three years – BA (Hons)
2016 entry Applications per place: 4
Number accepted: 190

Typical offers require
A Level A
da 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
All Colleges require A Level/IB Higher Level
English Literature (English Literature and Language or English Language may be accepted as a substitute at some Colleges)

Admission assessment
ELAT pre-interview (see p39 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference S (see p154-5)

Years 1 and 2 (Part I)
You’re introduced to the full range of English literature from the Middle Ages to the present day. There are few set texts, so that while you must study widely, you can also focus on topics of interest to you. Over the first two years, you take two compulsory papers:

• English Literature and Its Contexts: 1500-1550
• Shakespeare

And you choose four from the following:

• Practical Criticism and Critical Practice
• Early Medieval Literature and Its Contexts: 500-1100
• English Literature and Its Contexts: 1100-1500
• English Literature and Its Contexts: 1500-1700
• English Literature and Its Contexts: 1800-1845
• English Literature and Its Contexts: 1870-Present

One or two of the last three optional papers can be replaced with coursework (one dissertation and one portfolio of essays).

Subject to certain restrictions, you are also able to take papers from the Anglo-Saxon, Norse, and Celtic; Classics; or Modern and Medieval Languages courses. Further details of these papers are available on the Faculty website.

Year 3 (Part II)
You take two compulsory papers:

• Practical Criticism
• Tragedy, which ranges from ancient Greek drama to contemporary writing

You also write a compulsory dissertation (of 6,000-7,500 words) and either submit a second dissertation (of 6,000-7,500 words) and take one optional paper, or choose two optional papers. The optional papers change regularly – the following are available in 2016-17:

• Chaucer
• Medieval English Literature 1066-1500: The Medieval Supernatural
• Victorian Literature
• Lyric
• Modernism and the Short Story
• English Moralists
• American Literature
• Postcolonial and Related Literatures
• History and Theory of Literary Criticism
• Literature and Visual Culture
• Contemporary Writing in English
• Early Modern Drama 1588-1642
• Special Period of English Literature 1847-72

Subject to certain restrictions, it’s possible to take papers from the Anglo-Saxon, Norse, and Celtic; Classics; or Modern and Medieval Languages courses. Further details of these papers are available on the Faculty website.

Different lecturers cater for a wide range of interests and subjects. There’s something for everyone, and a healthy emphasis on pursuing your own interests that’s intellectually liberating.

Camilla

Related courses
Anglo-Saxon, Norse, and Celtic 40
Classics 52
Education 58
Linguistics 80
Modern and Medieval Languages 89
Theology, Religion, and Philosophy of Religion 106

Course outline
Teaching is provided through lectures, seminars, and small-group supervisions and classes.

You typically attend at least six hours of lectures or seminars, and two to three hours of individual, paired or small-group supervision each week. You normally write one or two short essays per week which you then discuss with your supervisor.

As well as unseen exams, there’s a compulsory dissertation and over the three years you can replace three more of the written exams with coursework. Prizes are awarded for the best work.

Camilla

Open days 2017
College open days (arts)
Cambridge Open Days – 6 July, 7 July (see p150)
Geography

Globalisation, environmental economics, conservation and ecology, climate change, glaciation, the future of developing regions, cultural differences – just some of the topics you can study on the Cambridge Geography course.

A wider world
All societies rely on relationships with each other and the physical environment. Increasingly these are fragile interdependences presenting intellectual and practical challenges. Our Geography course tackles these issues from a broad base, but also allows you to specialise.

Facilities and resources
We have one of the UK’s largest geography libraries, containing around 20,000 books, journals and periodicals, and the Scott Polar Research Institute is an integral part of the Department. There are extensive computing resources, where you receive formal teaching in geographical information technology including geographical information systems and remote sensing, and the Department’s intranet provides further online resources.

Fieldwork and travel
Fieldwork is an important part of our course and there are several one-day excursions and field trips in Years 1 and 2. A compulsory field class in Year 2 leads to a piece of assessed practical work. Recent locations include Switzerland, Ireland, Germany, Morocco and Spain. Some financial help is available but students are required to contribute to the cost of field trips.

Your Part I dissertation requires basic research, usually carried out in the summer vacation following your second year. Dissertation subjects and locations vary widely: some students travel abroad, others stay in the British Isles. Many students organise their own overseas expeditions, often with the University Expeditions Society. Some Department and College travel awards are available for this.

Course outline
You typically have six to eight lectures each week (with associated reading). In addition, you normally have three supervisions a fortnight at which you discuss a topic, usually following preparatory reading and essay writing. In the first and second years, you also have laboratory or practical classes, and field classes.

Year 1 (Part IA)
You’re introduced to key themes and issues by studying two core papers.
- Human Geography – topics include globalisation, Fordism and welfare, ecological, economic and political perspectives on resource use.
- Physical Geography – topics include tectonics and volcanism, coastal processes, glacial processes, Quaternary climate change and biogeography, atmosphere and climate.

You’re assessed by one written examination for each paper.
You also submit Geographical Skills and Methods projects that cover numerical methods, survey techniques, documentary and archival data, spatial data, and field, laboratory and desk-based skills.

Year 2 (Part IB)
All students take a compulsory Living with Global Change paper, addressing key concepts and current issues in geography, assessed through both coursework and written examination.

In addition, you can begin to specialise and select three papers from a choice of six (also assessed by a combination of coursework and examination). Each year, three human geography papers and three physical and environmental geography papers are available. The lists below give examples of Part IB papers that may be offered.

Human geography:
- Austerity and Affluence
- Development Theories, Policies and Practices
- Citizenship, Cities and Civil Society

Physical and environmental geography:
- Glacial Processes
- Biogeography
- Environmental Systems and Processes: Remote Sensing
- Urbanism
- Globality

Building on Part IA Skills and Methods, you also undertake project work involving field, lab and computer skills and techniques.

You participate in a one-week residential field class that contributes to your final year dissertation research by inspiring your choice of topic and developing specific field research skills. Following the field class, you submit a report on it and a dissertation proposal as part of your second-year assessment, along with statistics/spatial data analysis coursework and written examinations.

Year 3 (Part II)
You can either specialise further or maintain a balance across the subject as a whole. You select four papers from 12, which are assessed by either written examination or by a combination of written examination and coursework. Papers on offer vary each year but recent examples include:

- The Geographies of Global Urbanism
- Political Ecology in the Global South
- Geographies of Discipline and Social Regulation
- Biosedimentary Coastal Systems
- Biogeography

You also write a dissertation of 10,000 words on a topic of your choice, which you start work on during the summer between Years 2 and 3. The topic must be defined by the second term of Year 2 and the proposal is assessed as part of your second-year coursework.

Geography’s a really varied course and it’s very difficult to get bored or frustrated with a topic because the focus changes regularly through the term.

Joe

Fact file

UCAS code
L700

Duration
Three years – BA (Hons)

2016 entry
Applications per place: 3
Number accepted: 97

Typical offers require
A Level A*A*A
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9

No specific subjects required by all Colleges
Some Colleges require A Level/IB Higher Level Geography

Colleges
Available at all Colleges except Pembroke and Peterhouse

Location
Map reference D (see p154-5)

Admission assessment
Pre-interview written assessment
(see p38 and www.cam.ac.uk/assessment)

Related courses

| Education               | 58 |
| History                | 68 |
| Human, Social, and Political Sciences | 74 |
| Land Economy           | 76 |
| Natural Sciences       | 94 |

Open days 2017
College open days (cts)
Cambridge Open Days – 6 July, 7 July (see p150)

01223 333385
undergraduate.enquiries@geog.cam.ac.uk
www.geog.cam.ac.uk
History

Also History and Modern Languages, and History and Politics

Our History course offers a huge range of options that span three millennia and circle the globe. In fact, you have the opportunity to investigate practically any period or aspect of history that interests you.

Across centuries and continents
Cambridge has one of the largest and best history faculties in the world, and our course reflects the quality and breadth of interest of our teaching staff. The History degree gives you the opportunity to explore the past from many different angles – including political, economic, social and cultural history – and to explore the interaction between history and other disciplines, such as politics, anthropology and archaeology. There’s ample scope throughout to pursue personal interests and experiment with different historical approaches. Some paper options are shared with other courses, such as Asian and Middle Eastern Studies, Classics, and Politics and International Relations, and specialist papers allow you to work with source materials as varied as Hollywood movies and Renaissance art.

Facilities and resources
Our major resource is our teaching staff of more than 100 leading experts. Cambridge was considered the world’s best university for History in the QS World University Rankings 2016, and both the Times and Guardian consistently rank our course the best in the UK. The Seeley Library (one of the largest history libraries in the world) and the nearby University Library mean that finding the right book is rarely a problem, and there is a wealth of rare materials and manuscripts suitable for students’ research. All undergraduate historians (not just those taking History and Modern Languages) are also encouraged to take up or improve foreign languages, and they have access to both the University Language Centre and specialist language teaching.

Careers and research
Cambridge historians acquire a range of skills that are attractive to employers: the ability to work independently, to evaluate evidence, and to present arguments clearly and persuasively. In the past, our graduates have had no difficulty in securing rewarding jobs in a wide variety of sectors, ranging from journalism and broadcasting to teaching and research, finance, consultancy, law and public administration.

Course outline
Teaching is provided through a combination of Faculty lectures and classes and College supervisions. On average, you attend eight to ten lectures each week. Your weekly supervisions, for which you typically write an essay, give you the opportunity to debate and develop your ideas with a senior historian and expert supervisor.

Years 1 and 2 (Part I)
Part I lasts two years (six terms) and comprises six papers, the first five of which are broad survey papers designed to give you an overview of a period in history. You study one each term for the first five terms and sit a written examination in each at the end of Year 2.

• You take at least one paper in British political history and at least one paper in British economic and social history.

• For the other three papers it’s possible to study any period of European history from the Greeks to the present, global and imperial history, the history of North America and the United States; and/or the history of political thought. If you wish, you can begin to specialise, for example in ancient and medieval papers, or almost entirely in the twentieth century.

For the compulsory sixth paper – Themes and Sources, an introduction to the handling of primary sources – you submit a 5,000-5,500 word essay. There’s a wide choice of topics, typically investigating a major comparative theme in history (such as the environment, money and society, or the history of the body). The essay is written over a period of some months and involves individual research.

History at Cambridge is unique and challenging. You cover such a wide geographical and historical scope and receive the very best teaching from experts in their field.

Andrew

Years 3 (Part II)
You take five papers, three of which are compulsory:

• Historical Argument and Practice – a general methodological paper that reflects on the broad issues of historical argument and practice arising out of work throughout the degree course (themes range from empire to gender, and from revolutions to race)

• a Special Subject – consisting of two papers (one assessed by a long essay of 6,000-7,000 words, the other by a written examination) that provide an opportunity for advanced in-depth study of an important historical period, process or problem (eg the Angolan Empire, Indian democracy, the Black Death, the history of Ireland) through detailed examination of primary sources.

For your remaining papers, you can either choose two Specified Subjects from a selection of topics or themes in history, or choose one Specified Subject paper and write a dissertation of 10,000-15,000 words on a topic you have devised.

Specified Subject papers cover many different time periods and parts of the world, from the Roman world to the twentieth century, and from the history of the Pacific and Indian Oceans to America’s involvement in Vietnam.

Though the dissertation isn’t compulsory more than half of our students take the opportunity to write one, and many find it one of the most rewarding aspects of their time here at Cambridge. Recent examples of dissertation titles include Crime and the Entertainment Industry in Chicago 1921-33, The Decline of Vauxhall Gardens 1790-1819, and Robert Clive and the ‘Gift’ in Eighteenth-Century India.

Related courses

| Anglo-Saxon, Norse, and Celtic | 40 |
| Archaeology | 42 |
| Asian and Middle Eastern Studies | 47 |
| Classics | 52 |
| Human, Social, and Political Sciences | 74 |
| Theology, Religion, and Philosophy of Religion | 106 |

Notices

Fact file

UCAS code: V100

Duration
Three years – BA (Hons)

2016 entry
Applications per place: 3
Number accepted: 199

Typical offers require
A Level A/ABB
IB 40-42 points, with 776 at Higher Level
No specific subjects required by all Colleges
Some Colleges require A Level/IB Higher Level History, A Level/IB Higher Level in an essay-based subject

Admission assessment
Pre-interview written assessment
(see p15 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference S (see p154-5)

University Rankings
Our History course has consistently ranked in the top three in the UK, according to the following bodies:

Times and Sunday Times Good University Guide

History and Modern Languages

Also available: History and Modern Languages

History and Politics

Also available: History and Politics

History and Modern Languages

Also available: History and Modern Languages

History and Politics

Also available: History and Politics

www.hist.cam.ac.uk

Open days 2017
College open days (arts)
Cambridge Open Days – 6 July, 7 July (see p150)

01223 335302
schoolsliaisonoffice@hist.cam.ac.uk
www.hist.cam.ac.uk
History and Modern Languages

This superb joint Honours degree gives you the language skills and historical awareness to better understand foreign cultures and societies – in Europe and beyond.

Course outline
Languages options are German, Italian, Russian and Spanish from scratch or post-A Level; Portuguese from scratch; and French post-A Level. You should indicate in your SAQ which language you’re interested in studying.

Teaching is provided through lectures, intensive language classes, seminars and College supervisions. You can typically expect around 14 hours of teaching each week, alongside which you complete translation and essay assignments, and supervision essays which you discuss with a subject specialist.

There are written exams at the end of every year, plus an oral examination in your chosen language. In the final year, you can offer a dissertation of 10,000 words in place of a written exam.

Year 1 (Part IA)
You receive intensive language training (including translation and conversation) and take an introductory paper on the literature, history, film and philosophy of the country where your language is spoken. You also choose two broad papers in European or world history or the history of political thought.

Year 2 (Part IB)
You continue with classes to improve your language skills, and also choose three advanced papers – at least one from each subject – from a range in your chosen language (e.g. literature, history, film, art, thought) and history (European, global or intellectual).

Years 3 and 4 (Part II)

Year 3
You spend the third year abroad – studying, teaching or on a work placement, while gaining near-native proficiency in your language. You also complete a project, normally on a topic related to the history of the country you’re staying in.

Year 4
In the fourth year, you continue with advanced language work, and take three specialised papers from a range of topics related to your language (e.g. literature, history, film, thought and history (covering a variety of periods and parts of the world). You must take at least one from each subject.

History and Politics

This exciting joint Honours degree allows you to study a range of subjects from our highly regarded History and Politics and International Relations courses, together with creative new papers which explore overlaps between the two disciplines.

Course outline
You take four papers in each year. Teaching is provided through faculty lectures and classes and College supervisions, for which you typically write an essay and which give you the opportunity to discuss your ideas with a senior academic. In the first year, you can expect between eight and 10 hours of lectures and classes a week, along with one or two supervisions.

You’re assessed at the end of every year – mostly by three-hour written exams, though some papers are assessed by coursework and in the final year you can replace one paper with a dissertation.

Year 1 (Part IA)
In Year 1, all students take Evidence and Argument, The Modern State and its Alternatives, and International Conflict, Order and Justice. Your fourth paper is chosen from the following:
- British Political History 1688–1886
- British Political History Since 1880
- European History 1715–1890
- European History Since 1890

Year 2 (Part IB)
You choose one of two History of Political Thought papers, either covering the period from the ancient Greeks to c1700, or c1700–c1890. For the second paper you take either International Organisation or Comparative Politics, and you select your third from four further history papers covering periods of world history, American history or British social and economic history.

Your final paper is chosen from:
- Statistics and Methods
- Conceptual Issues in Politics and International Relations – exploring an aspect of politics and/or international relations (assessed by two 5,000 word essays)
- a history project (leading to two 5,000 word essays)

Year 3 (Part II)
All students take an interdisciplinary paper that considers general and thematic issues in history and politics and the relationship between them.

You then choose three papers from a range from the Politics and International Relations and History courses. The papers available each year may vary – see the website for those currently offered. Alternatively, you can replace one of these three papers with a dissertation of 10,000–15,000 words on a topic of your choice within the scope of the course.

Fact file

Available at all Colleges

Fact file

www.mml.cam.ac.uk

Fact file

www.hist.cam.ac.uk

www.hist.cam.ac.uk
History of Art

Fine collections of works of art, well-stocked libraries and the spectacular architectural environment on your doorstep mean that studying History of Art at Cambridge is particularly rewarding.

History of Art at Cambridge

Our course covers a wide spectrum of art and architecture, from the medieval to modern and contemporary periods. The aim is to foster a wide and deep understanding of art and architecture, and to help you develop visual literacy and awareness, as well as a range of critical and analytical skills.

A treasury of resources

There’s no substitute for looking at the real objects and we take full advantage of Cambridge’s outstanding resources, including the Fitzwilliam Museum and its picture conservation department, Kettle’s Yard and the Colleges’ art collections.

The Department’s comprehensive library houses a rich collection of books, and you have access to the University Library and the Fitzwilliam Museum’s reference library (among others) as well. During vacations, travel is encouraged and College financial support is usually available; we also organise study outings.

Preparation

We advise that you visit museums, exhibitions and buildings, such as churches or country houses, and take descriptive notes or sketches of what you see. Try to analyse the effect works of art or architecture have on you. Some familiarity with classical mythology and the Bible is invaluable for the study of the meaning of works of art. The admissions area of the Department website suggests other preparatory reading.

After Cambridge

Our graduates are well-equipped for employment in museums and art galleries, agencies for the care and conservation of monuments and heritage management, fine art dealing, publishing, advertising and the visual media, as well as for teaching.

Our prominent graduates include the artists Antony Gormley and Marc Quinn; the model and actress Lily Cole; Dr Philip Rylands, Director of the Peggy Guggenheim Museum in Venice; Charles Saumarez Smith CBE, Chief Executive of the Royal Academy in London; Sir Nicholas Serota, Director of the Tate Gallery; and the Hon James Stourton, former Chairman of Sotheby’s UK.

Course outline

Teaching is provided through lectures, seminars and supervisions. First-year students typically have up to six hours of departmental teaching each week, as well as a supervision linked to your weekly reading and essays.

Particular attention is paid to the first-hand study of works of art – lectures and classes are regularly held in museums, taught by curatorial staff and other visiting experts – and you receive exceptional attention and support throughout your degree.

Assessment varies according to the paper being studied but typically includes written examinations and visual analysis tests (comparing and contrasting works of art), and a dissertation in Year 3.

Year 1 (Part I)

Part I provides you with a broad introduction to the history of art, and to the making and meaning of art objects, with special emphasis on the collections of the Fitzwilliam Museum. These run from the art of Ancient Egypt to modern times, and include major examples of medieval, Renaissance and post-Renaissance art as well as non-Western items.

During the year you take five compulsory papers and complete a short dissertation:

- The Objects of Art History – a survey of art and architecture that introduces the history of art from antiquity to the modern era
- The Making of Art – two papers covering issues of manufacture, technique and style in painting and sculpture in the context of their historical development
- The Meaning of Architecture and Art – two papers concerned with how works of architecture and art are interpreted in light of cultural traditions
- The short dissertation is 5,000 words on a subject of art or architecture in or around Cambridge

The Department offers engaging lectures and hands-on experience with some of our country’s most beautiful paintings, sculptures and buildings. It’ll be a shame to graduate!

Bobby

Year 2 (Part IIA)

Part II deepens your knowledge and understanding by focusing in greater depth on specific issues.

In Part IIA, you take one compulsory paper along with two pairs of papers on Special Subjects:

- Approaches to the History of Art – the compulsory paper covers the history of the discipline and its critical methodologies from antiquity to the present day
- Special Subjects – chosen from a range of up to 10, each pair deals with a particular person, subject or period. These currently include French medieval art and architecture, English Renaissance art and architecture, art and architecture in medieval Italy, British art and architecture, Russian painting, Surrealism, art in Paris 1750-1800, and post-1960 visual art

Year 3 (Part IIB)

In Part IIB, you take one compulsory paper, two further papers of Special Subjects papers and submit a dissertation:

- The Display of Art – the compulsory paper explores the ways in which art is collected, displayed and experienced in society
- Special Subjects – the options available are as those in Part IIA, but you take two subjects that you haven’t studied before
- the dissertation is 7,000-9,000 words on a topic of your choice, as agreed with your Director of Studies

Fact file

UCAS code V350

Duration Three years – BA (Hons)

2016 entry Applications per place: 4
Number accepted: 26

Typical offers require
A Level A/AA
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
No specific subjects required by all Colleges
Some Colleges require A Level/IB Higher Level in an essay-based subject

Admission assessment
At-interview written assessment, if interviewed
(see p13 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges except Girton, Robinson and St Catharine’s

Location
Map reference L (see p154-5)

Related courses

<table>
<thead>
<tr>
<th>Department</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>44</td>
</tr>
<tr>
<td>Asian and Middle Eastern Studies</td>
<td>47</td>
</tr>
<tr>
<td>Classics</td>
<td>52</td>
</tr>
<tr>
<td>History</td>
<td>68</td>
</tr>
<tr>
<td>Philosophy</td>
<td>102</td>
</tr>
<tr>
<td>Theology, Religion, and Philosophy of Religion</td>
<td>106</td>
</tr>
</tbody>
</table>

Open days 2017
College open days (art)
Cambridge Open Days – 6 July, 7 July (see p150)

01223 332975
undergrad.enquiries@aha.cam.ac.uk
www.hoart.cam.ac.uk
www.hoart.cam.ac.uk
www.cam.ac.uk
Human, Social, and Political Sciences

Human, Social, and Political Sciences encompasses politics and international relations, social anthropology and sociology. You can specialise in one or two of these, but the flexibility of the course also enables exploration of a variety of subjects first if preferred.

Explore subjects you like and experience new ones

Human, Social, and Political Sciences (HSPS) at Cambridge can be tailored from the start. This means it's suited both to those with specific subject interests, and to those looking for a multidisciplinary degree. The course comprises three core disciplines, taught by globally respected departments.

- Politics and International Relations explores politics within and between countries, covering issues from human rights and democracy, to financial crises and international conflict.
- Sociology focuses on the nature of modern societies and the processes that shape social life, by examining social institutions and topics such as power and inequality.
- Social anthropology address 'what it is to be human' by studying social and cultural diversity – how people live, think and relate to each other around the world.

Depending on the subject(s) you choose, there may be options to take individual papers in the other HSPS subjects or from other courses as well.

Why choose Cambridge?

Cambridge offers a world class undergraduate education, and excellent teachers and learning facilities. The Faculty has two libraries and superb teaching resources including the Museum of Archaeology and Anthropology, computing facilities, multimedia-equipped teaching rooms, purpose-built laboratories and a rare collection of ethnographic films.

And after Cambridge?

The analytical and critical skills, intellectual versatility, multicultural sensitivity and international outlook you develop through this course are widely sought after by employers. Recent graduates have pursued careers in academic and policy research, the Civil Service, management, national and international NGOs and consultancy, museums, conservation and heritage resources including the Museum of Archaeology and Anthropology of three two-subject tracks – Politics and Sociology, Social Anthropology and Politics or Sociology and Social Anthropology.

Course outline

Teaching is delivered through lectures, supervisions and seminars. Some subjects also include practical/laboratory classes and fieldwork. In the first year, you have around eight lectures and one or two supervisions a week.

You're assessed at the end of each year – mostly through three-hour written exams, though some papers are assessed by coursework. In Year 3, you can substitute one paper for a 10,000 word dissertation.

Year 1 (Part I)

In Year 1, you take four papers. At least three must be from the core subjects – politics, international relations, social anthropology and sociology. Your fourth can be another core subject paper, or you can choose an archaeology, biological anthropology or psychology option.

Year 2 and 3 (Part II)

You choose one of three single-subject tracks (see below), or one of three two-subject tracks – Politics and Sociology, Social Anthropology and Politics or Sociology and Social Anthropology.

Please note that it’s not possible to change track between Years 2 and 3, unless switching from a two-subject track to one of the subjects within it. Some final year papers require you to have taken a relevant Year 2 paper.

Politics and International Relations

Year 2

You take Comparative Politics, International Organisation, and History of Political Thought. Your fourth can be another politics and international relations paper; two 5,000 word essays; a statistics paper; or one offered in another HSPS subject or from Archaeology, History or History and Philosophy of Science.

Year 3

You study a general paper in politics and international relations, plus three optional papers from a range of politics and international relations subjects, one of which can be a dissertation; or two optional papers, and one from another HSPS subject or from selected Archaeology and History papers.

Social Anthropology

Year 2

You take Comparative Social Analysis, Anthropological Theory and Methods and a paper on the anthropology of an ethnographic area. Your fourth is an optional paper.

Year 3

You take two advanced anthropology papers – Thought, Belief and Ethics, and Political Economy and Social Transformation – and either two optional papers, or one optional paper and a dissertation.

Open days 2017

College open days (arts)
- 3 July
- 7 July

During the first year, the different subjects vary broadly and you have time to decide which to specialise in from the second year.

Jonathan

Fact file

UCAS code
L000

Duration
Three years – BA (Hons)

2018 entry
Places available: 170

Typical offers require
A Level A*A/A
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
No specific subjects required by any Colleges
Useful preparation An essay-based subject

Admission assessment
Pre-interview written assessment (see p.199 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map references M, S (see p.154-5)

Related courses
Archaeology
42

Arvan and Middle Eastern Studies
47

Geography
66

History
68

Psychological and Behavioural Sciences
104

Theology, Religion, and Philosophy of Religion
106

www.hsps.cam.ac.uk

01223 769126 / 335454
enquiries@hsps.cam.ac.uk

@www.hsps.cam.ac.uk

01223 769126 / 335454
enquiries@hsps.cam.ac.uk
www.hsps.cam.ac.uk

Open days 2017
College open days (arts)
Cambridge Open Days – 6 July, 7 July (see p150)
Land Economy

Land Economy is intellectually challenging – encompassing law and economics, with aspects of the environment, business finance and resource management – and offers many excellent career opportunities.

A challenging combination
Law, economics, and their relationship to the built and natural environments are central to Land Economy, along with other areas such as public policy, planning, the financial aspects of real estate and international development.

The multidisciplinary nature of the course is particularly relevant in the twenty-first century where the environment, law and economics and the control of scarce resources affect the daily lives of people around the world.

Teaching and resources
Our lecturers are specialists in their own field and include lawyers, economists, planners and experts in environmental policy, finance and quantitative methods. Many are involved in research projects of national and international concern.

The Department has a comprehensive library and an intranet store of wide-ranging teaching, careers and other useful information.

Professional training
This degree differs from similar courses (such as Town Planning) offered elsewhere because it’s not wholly vocational, and the emphasis is on intellectual and academic content which appeals greatly to employers.

The degree is accredited by the Royal Institution of Chartered Surveyors (RICS) and allows graduates to progress directly to the Assessment of Professional Competence to become a full member of the RICS.

It can also give partial exemption from the academic requirements of the Bar Council and Law Society for those intending to be lawyers. An appropriate combination of papers is required in each case.

Exceptional employment prospects
The Department has one of the strongest records for graduate employment across the University; a reflection of its focus on topics relevant to real-world problems, and its academic content which appeals greatly to employers.

There are lots of options available. I can tailor it to my own strengths and interests and it opens up all kinds of fantastic job prospects.

Elaine

Course outline
Teaching in the Department is a mix of lectures, seminars, project work and supervisions. In a typical week, you can expect 10-15 hours of lectures and two or three supervisions.

Assessment is by written examinations and through coursework and projects, as well as a dissertation in Year 3 (Part II).

Year 1 (Part IA)
Part IA provides the framework for later specialisation. You acquire a thorough grounding in the core disciplines of law and economics and are introduced to the multidisciplinary nature of the degree through four compulsory papers:
• Economics
• The Public Sector: Institutional and Legal Frameworks
• Quantitative and Legal Methods for Land Economists
• Land Economy, Development and Sustainability

During your first year you develop a sound numerical base, computer literacy, and skills in oral presentation and report preparation.

Year 2 (Part IB)
In Part IB, you can continue studying a broad range of law, environmental policy and economics topics, or choose to specialise more closely in one of the three disciplines. You take five papers, including at least one paper from a choice of two on law, and select your other four papers from a choice of six. Current options include:
• Environmental Economics and Law
• Fundamentals of Finance and Investment
• The Built Environment
• Land and Urban Economics
• The Law of Real Property: Principles, Policy, and Economic Implications
• Advanced Techniques in Finance and Investment for Real Estate

Year 3 (Part II)
Part II continues the work of the second year, with further opportunity for breadth or depth.

You’re required to take four papers chosen from a wide range of options which currently includes:
• Law and Economics
• Landlord and Tenant Law
• Planning Policy and Practice
• Land, Food and Ecosystem Services
• Land Policy and Development Economics
• Advanced Techniques in Finance and Investment for Real Estate

You also write a 10,000 word dissertation on any aspect of the Department’s work of your choosing.

Dissertation topics have covered all the research interests of Departmental staff and this is the opportunity to specialise in a topic that particularly interests you.

The choice is very broad and in the past students have written on, for example:
• the economics of gentrification
• Aboriginal land claims in Australia
• catastrophic risk management in capital markets
• the social perception of population density
• the future prospects of virtual currencies
• the upgrading of slums in Brazil
• road traffic and house prices
• financial institutions in sub-Saharan Africa
• the affordable housing legacy of the London Olympics

Fact file
UCAS code
KL41
Duration
Three years – BA (Hons)
2016 entry
Applications per place: 4
Number accepted: 56
Typical offers require
A Level A/AB
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
No specific subjects required by any Colleges
Useful preparation Economics, Mathematics
Admission assessment
At interview written assessment, if interviewed (see p39 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges except Churchill, Corpus Christi, Emmanuel, King’s and Peterhouse

Location
Map reference F (see p154-5)

Related courses
Architecture 44
Economics 56
Geography 66
Human, Social, and Political Sciences 74
Law 78
Management Studies 112

Related courses
Architecture 44
Economics 56
Geography 66
Human, Social, and Political Sciences 74
Law 78
Management Studies 112

Open days 2017
TBC – booking required, see the Department website
College open days (Uni)
Cambridge-Open Days – 6 July, 7 July (see p150)

01223 337147
landecon-ugadmissions@lists.cam.ac.uk
www.landecon.cam.ac.uk

www.landecon.cam.ac.uk
Law

Questions of analysis and interpretation, logical reasoning, ethical judgement, political liberty and social control: Law at Cambridge allows undergraduates to see law in its historical and social contexts, and to examine its general principles and techniques.

Law at Cambridge

Although our course (referred to elsewhere as LLB) is primarily concerned with English law, there are opportunities to study other legal systems, including civil (Roman) law, EU law and international law. You can also study theoretical and sociological aspects of law such as jurisprudence or parts of criminology.

Facilities and resources

The present Faculty teaching staff has expertise across nearly every aspect of English law and its history, as well as EU, international and civil law, legal philosophy and criminology. The Faculty building houses lecture theatres, seminar rooms and a moot court, as well as the comprehensive Squire Law Library, offering more than 180,000 volumes and excellent computing facilities. The Faculty and University Law Society organise numerous activities including formal meetings, informal barristers’ and solicitors’ evenings, social events, lectures and moots (debates about hypothetical legal cases).

Erasmus Scheme

The Faculty currently has exchange agreements with universities in France, the Netherlands, Germany and Spain. About 20 undergraduates can spend a year abroad studying the law of one of these European countries. See the Faculty website for details and updates on the Scheme.

After Cambridge

Currently, a Law degree alone isn’t a qualification for practice but ‘qualifying law graduates’ (who’ve passed the seven ‘foundation’ subjects) may proceed directly to vocational courses that lead to professional examinations. The foundation subjects are Constitutional Law, Criminal Law, Law of Tort, Law of Contract, Land Law, Law of Trusts (Equity), and Law of the EU. Please note that professional bodies are reviewing the requirements for qualifying as a solicitor or barrister.

Our graduates go on to qualify as barristers and solicitors, and find employment within the legal departments of the Civil Service, local government, industrial and commercial firms, banks, and international organisations. Others stay in academia or seek careers in administration, management, politics or finance.

Course outline

For each subject, you attend lectures given by teaching members of the Faculty. The typical number of lecture hours for each paper is 36 per year, mostly timetabled for the first two terms of each year, which equates to about 10-12 hours of lectures a week. You normally have a fortnightly College supervision in each subject as well. With the exception of the Legal Skills and Methodology paper, for which you submit an extended essay, each paper is assessed by a written examination at the end of the year. In the third year, you have the option of substituting one paper for a dissertation.

Year 1 (Part IA)

In Year 1, all students take the same papers:
- Criminal Law
- Constitutional Law
- Civil Law
- Law of Tort
- Legal Skills and Methodology – a half paper providing training in legal methodology and research

Year 2 (Part IB)

In your second year, you choose five papers from a wide range of options. Most students take Contract Law and Land Law. Other options are:
- Family Law
- International Law
- Administrative Law
- Criminal Procedure and Evidence
- Legal History
- Civil Law II
- Criminology, Sentencing and the Penal System
- Comparative Law

Year 3 (Part II)

In the third year, you select and study five papers from an even more extensive range. Most students take Equity and EU Law but you can develop your interests in, for instance:
- commercial law
- public law subjects
- labour law
- more theoretical aspects of law, such as jurisprudence

You can take certain half papers as well. In recent years, papers available have included:
- Landlord and Tenant Law
- European Human Rights Law
- Personal Information Law
- Law and Development
- Banking Law

You can also participate in a seminar course, submitting a dissertation in place of one paper. Seminar courses vary each year but in the past have included Family in Society, Women and the Law, Law and Ethics of Medicine, Public Law, and Select Issues in International Law.

The Cambridge Law degree is academically stimulating, challenging and rewarding – and provides the foundations for a successful future career in any profession.

James

Fact file

UCAS code
M100

Duration
Three years - BA (Hons)

2016 entry
Applications per place: 5
Number accepted: 217

Typical offers require
A Level AAA
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
No specific subjects required by any Colleges
Useful preparation An essay-based subject

Admission assessment
At interview written assessment, if interviewed (see p139 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference S (see p154-5)

Related courses
Human, Social, and Political Sciences 74
Land Economy 76
Management Studies 112
Philosophy 102

Open days 2017
5 July – booking required, see the Faculty website
College open days (arts)
Cambridge Open Days – 6 July, 7 July (see p153)

See the Faculty website for information regarding the three-day Year 12 Sixth-Form Law Conference held each March
Are you curious about our most crucially human attribute, language? Is a subject that combines the arts and sciences appealing? If you’ve found yourself asking ‘why?’ or ‘how?’ in relation to language, then Linguistics is for you.

Language and linguistics

Linguistics is the systematic study of human language. Superficially, there’s huge variation among the world’s languages, and linguists not only describe the diverse characteristics of individual languages but also explore properties which all languages share and which offer insight into the human mind.

The study of linguistics draws on methods and knowledge from a wide range of disciplines. For instance, the study of meaning draws on philosophy, the analysis of the speech signal uses methods from physics and engineering, and the study of language acquisition draws on psychology.

This variety is one of the things that makes linguistics fascinating: one day you might be poring over a medieval text for evidence of how the grammar of a language has changed, and the next, learning about how the larynx creates sound energy for speech or how we can record brain responses in a categorisation task.

The Department

The Department has internationally acknowledged expertise across an unusually wide range of language-related disciplines, both theoretical and applied. Situated within the Faculty of Modern and Medieval Languages, the Department of Theoretical and Applied Linguistics benefits greatly from colleagues specialising in the linguistics of particular European languages.

After Linguistics

The broad interdisciplinary training we offer provides our graduates with transferable skills that are greatly sought after by employers; for example, students learn to analyse quantitative data, construct abstract grammatical models, and test alternative hypotheses. Linguistics graduates find employment in a wide range of professions, from journalism to banking.

Linguistics provides particularly good preparation for vocational training too, in fields such as speech therapy, teaching, speech and language technology (eg developing speech recognition and translation software), law, translation, interpreting and even forensic linguistics. Familiarity with a range of human languages is also a huge advantage in careers where rapid learning of unfamiliar languages may be involved, such as in the Diplomatic Service.

Course outline

Linguistics is divided into a one-year Part I and a two-year Part II, and teaching is delivered through a mixture of lectures, supervisions and practical sessions. A typical week involves four hours of lectures, two hours of supervisions (in groups of six students in Part I, and two students in Part II), and one to two hours of practical classes.

Assessment is by written examination, and practical exams in phonetics, as well as a dissertation in the final year.

Year 1 (Part I)

Part I provides a foundation across a wide range of linguistics taught within the Department of Theoretical and Applied Linguistics. You take the following four papers:

- Sounds and Words – an introduction to phonetics, phonology and morphology
- Structures and Meanings – looking at topics including sentence construction, semantics and pragmatics
- Language, Brain and Society – considering language and its relation to cognitive and social phenomena
- History and Varieties of English – a linguistic analysis of contemporary variation and historical change in English

Year 2 (Part IIA)

In Part IIA, you take four papers chosen from a wide range of options dealing with different linguistic levels and perspectives, which may include the following (not all options are offered every year):

- Phonetics
- Phonology
- Morphology
- Syntax
- Semantics and Pragmatics
- Historical Linguistics
- History of ideas on Language
- History of English/History of French
- Language Acquisition
- Psychology of Language Processing and Learning
- Computational Linguistics

Year 3 (Part IIB)

In Part IIB, you take:

- Linguistic Theory – a general theory paper
- Two further papers from the remaining Part IIA options

For your fourth paper, Part IIB also includes an element of individual research as you write a dissertation of 8,000-10,000 words on a topic of your choice.

Studying Linguistics I can explore the full scope of a discipline which is still developing in many exciting directions, and focus on areas which I really enjoy.

Amelia

Related courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anglo-Saxon, Norse, and Celtic</td>
<td>40</td>
</tr>
<tr>
<td>Avan and Middle Eastern Studies</td>
<td>47</td>
</tr>
<tr>
<td>Classics</td>
<td>52</td>
</tr>
<tr>
<td>Computer Science</td>
<td>54</td>
</tr>
<tr>
<td>Human, Social, and Political Sciences</td>
<td>74</td>
</tr>
<tr>
<td>Psychological and Behavioural Sciences</td>
<td>104</td>
</tr>
</tbody>
</table>

Fact file

UCAS code Q100
Duration Three years – BA (Hons)
2016 entry Applications per place: 3
Number accepted: 18
Admission assessment At interview written assessment, if interviewed (see p38 and www.cam.ac.uk/assessment)
Colleges Available at all Colleges except St Catharine’s
Useful preparation English (Language or Literature), Mathematics; an arts/science mix, a language (ancient or modern)
Location Map reference 5 (see p154-5)

Open days 2017
17 March – booking required, see the Department website College open days (arts) Cambridge Open Days – 6 July, 7 July (see p150)
Mathematics

Including Mathematics with Physics

Cambridge is renowned for the excellence of its Mathematics course. Equally challenging and rewarding, it offers the opportunity to study a wide range of subjects; everything from abstract logic problems to black holes.

Flexibility: a course that suits you

The Cambridge Mathematics course is often considered to be the most demanding undergraduate Mathematics course available in Britain and, correspondingly, one of the most rewarding.

Two other aspects of the course that our students greatly appreciate are its flexibility and the breadth of subjects offered. The amount of choice increases each year and after Year 1 the workload isn’t fixed so you can choose the number of options you study to suit your own work pattern. Some students take as many options as they can; others take fewer and study them very thoroughly.

Our Faculty

Since Sir Isaac Newton was Lucasian Professor (1669-96), our Faculty can; others take fewer and study them very thoroughly.

Careers

A Cambridge Mathematics degree is versatile and very marketable. The demand for our mathematicians is high in business, commerce and industry, as well as the academic world.

Around 45 per cent of our students go on to further study, while others follow a wide variety of careers. Recent graduates include a metrologist, sports statistician, journalist, and an avionics, radar and communications engineer, as well as teachers, actuaries, accountants, IT specialists, financiers and consultants.

STEP

For information about STEP, see p149. The University offers a free online STEP support programme (www.maths.org/STEP) designed to help prospective applicants develop advanced problem-solving skills and prepare for the STEP exams.

Course outline

In Year 1, you typically have 12 lectures and two supervisions each week. In the following years, the greater choice and flexibility means that the pattern of lectures and supervisions is more irregular, but the average load is roughly the same.

You sit four written examination papers each year. In addition, there are optional computer projects in Years 2 and 3. In the fourth year, each course is examined individually, and you have the option of submitting an essay on a current research topic.

Year 1 (Part IA)

In the first year, there are two options to choose from:

- Pure and Applied Mathematics, for students intending to continue with Mathematics
- Mathematics with Physics, for students who may want to study Physics after the first year

You should state in your UCAS application which option you wish to take, though it’s possible to change when you start the course. You can still continue with Mathematics in the second year if you take Mathematics with Physics.

Part IA introduces you to the fundamentals of higher mathematics, including:

- the study of algebraic systems (such as groups)
- analysis of calculus
- probability
- mathematical methods (such as vector calculus)
- Newtonian dynamics and special relativity

You take eight subjects. Those taking Mathematics with Physics replace two Mathematics subjects with Part IA Physics from Natural Sciences, covering, for example, kinetic theory, Fourier analysis, and electromagnetism.

My Mathematics degree at Cambridge was inspiring and demanding, but most importantly academically rewarding, and it opened up opportunities I never knew existed.

Zoe

Year 2 (Part IB)

In Part IB, you choose from around 16 options available. In most, the topics of the first year are studied in much greater depth, but some new topics are offered, for example:

- geometry
- electromagnetism, quantum mechanics and fluid dynamics
- applicable mathematics, which includes statistics and optimisation (a rigorous treatment of topics from decision mathematics)
- numerical analysis

There are also optional computational projects (assessed by means of reports and programs submitted before the summer examinations), using numerical or algebraic techniques to investigate mathematical problems.

Year 3 (Part II)

Year 3 gives you the opportunity to explore your mathematical interests in detail. There is a very wide choice, including papers on, for example:

- cryptography
- algebraic topology
- number theory
- cosmology
- general relativity

There are also optional computational projects.

Year 4 (Part III, optional integrated Masters)

Part III has a world-wide reputation for training the very best research mathematicians. Progression to Part II, in which more than 90 options are offered, normally requires a first in Part II or a very good performance in Parts IB and II, and successful completion leads to a BA with MMath. See the Faculty website for more details.

Fact file

UCAS code

G100

Duration

Three years - BA (Hons)

Four years - MMath

2016 entry

Applications per place: 5

Number accepted: 256

Typical offers require

A Level A*AA + STEP

IB 40-42 points, with 776 at Higher Level + STEP

Other qualifications See p147-9

All Colleges require A Level/IB Higher Level Mathematics, STEP (see p149).

Some Colleges require AS or A Level Further Mathematics, A Level/IB Higher Level Physics; see p149 regarding Further Mathematics requirements for 2019 entry

Admission assessment

Some Colleges – at interview written assessment, if interviewed (see p147 and www.cam.ac.uk/assessments)

Colleges

Available at all Colleges, except Wolfson

Most Colleges don’t encourage deferred entry

Location

Map reference X (see p154-5)

Open days 2017

29 April, 6 May – booking required, see the Faculty website

College open days (science)

Cambridge Open Days – 6 July, 7 July (see p118)

Other qualifications

See p147-9

IB

A Level

Typical offers require Mathematics, A Level/IB Higher Level Physics, Mathematics, STEP (see p149).

All Colleges require Mathematics, A Level/IB Higher Level Physics, three science/mathematics subjects.

See p149 regarding Further Mathematics requirements for 2019 entry

Related courses

Computer Science

Economics

Engineering

Natural Sciences

Open days 2017

29 April, 6 May – booking required, see the Faculty website

College open days (science)

Cambridge Open Days – 6 July, 7 July (see p118)

0 1223 766879
admissions@maths.cam.ac.uk
www.maths.cam.ac.uk

www.maths.cam.ac.uk

www.maths.cam.ac.uk
At Cambridge, we offer two medicine courses – the Standard Course and the Graduate Course. With both, our aim is to educate students to become compassionate, thoughtful, skilled members – and leaders – of the medical profession.

The Clinical School works closely with Health Education East of England to provide Foundation Programmes as the first part of postgraduate education. Please refer to the website for information about progression to Foundation Programmes (www.foundationprogramme.nhs.uk).

Careers
There is a broad spectrum of hospital-based careers across medical, surgical and other specialties, but healthcare is moving towards a more community-centred model of delivery and consequently doctors are increasingly expected to deliver healthcare in a range of settings. Most UK graduates go on to work in the NHS, and about half become general practitioners.

NHS Bursaries
NHS Bursaries (www.nhsbsa.nhs.uk/students) are currently available for eligible Medicine students from Year 5 of the Standard Course (A100), or from Year 2 of the Graduate Course (A101).

Course outline – Standard Course
At Cambridge, you study the medical sciences first, before learning to apply that knowledge to medical practice as a clinical student.

The first three years (pre-clinical studies) are taught through lectures, practical classes (including dissections) and supervisions, with typically 20-25 timetabled teaching hours each week. The emphasis during the clinical studies (Years 4, 5 and 6) in Cambridge is on learning in clinical settings: at the bedside, in outpatient clinics and in GP surgeries, which is supported by seminars, tutorials and discussion groups.

The public expect their doctors to be knowledgeable and well informed so assessment plays a significant role throughout. Your ongoing progress is reviewed weekly and termly by your College supervisors. Formal assessment, which determines your ability to proceed with the course, includes written and practical examinations, coursework submission and clinical assessments.

Successful completion of the first three years leads to a BA degree and on successful completion of the clinical studies in Cambridge you are awarded two degrees, the Bachelor of Medicine and the Bachelor of Surgery (MB, BChir).

Years 1, 2 and 3 (pre-clinical studies)

Years 1 and 2
In Years 1 and 2, you study the medically-relevant core scientific knowledge and skills needed as a medical professional. Taught by some of the world’s top academic scientists, we provide you with the scientific basis that will allow you to develop your medical career to the full, whether your aim is to deliver outstanding patient care or whether you wish to contribute to clinical academic medicine, combining research and teaching with clinical duties to push forward the boundaries of health care.

Read more about Years 1 and 2 online at: www.biology.cam.ac.uk/undergrads.

Year 3
You specialise in one of a wide range of other subjects offered by the University (sometimes known elsewhere as intercalation) to qualify for the BA degree. Options include:

- a single Part II Natural Sciences subject (see p100-1)
- Part II Biological and Biomedical Sciences (see p100)
- a subject less obviously related to medicine, such as Anthropology, Management Studies or Philosophy

Taught by some of the world’s top academic scientists, we provide you with the scientific basis that will allow you to develop your medical career to the full, whether your aim is to deliver outstanding patient care or whether you wish to contribute to clinical academic medicine, combining research and teaching with clinical duties to push forward the boundaries of health care.

Read more about Years 1 and 2 online at: www.biology.cam.ac.uk/undergrads.

Years 1, 2 and 3 (pre-clinical studies)

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Year 3
You specialise in one of a wide range of other subjects offered by the University (sometimes known elsewhere as intercalation) to qualify for the BA degree. Options include:

- a single Part II Natural Sciences subject (see p100-1)
- Part II Biological and Biomedical Sciences (see p100)
- a subject less obviously related to medicine, such as Anthropology, Management Studies or Philosophy

Taught by some of the world’s top academic scientists, we provide you with the scientific basis that will allow you to develop your medical career to the full, whether your aim is to deliver outstanding patient care or whether you wish to contribute to clinical academic medicine, combining research and teaching with clinical duties to push forward the boundaries of health care.

Read more about Years 1 and 2 online at: www.biology.cam.ac.uk/undergrads.

Years 4, 5 and 6 (clinical studies)
Clinical studies are based at Addenbrooke’s Hospital, University of Cambridge Hospitals NHS Foundation Trust. You also spend time in other NHS hospitals throughout East Anglia and in general practices in Cambridge and the surrounding region.

Throughout the clinical studies, you build on your biomedical science education; developing the knowledge, skills and attitudes required to practise clinical medicine. Following an introductory course, each of the three years has its own focus and is built around several major themes, including:

- communication skills, patient investigation and practical procedures
- therapeutics and patient management
- core science, pathology and clinical problems
- evaluation and research
- professionalism and patient safety

You have weekly small-group clinical supervisions with junior doctors to develop and monitor your clinical skills.

Read more about the clinical studies online at: www.medschl.cam.ac.uk/education/prospective.

Medicine here is incredible. In the first year, we have full body dissection (offered in very few UK medical schools), which is an amazing way to learn anatomy.

Mhairi
Entry requirements for Medicine

You may enter up to four medical courses in your UCAS application. Your remaining choice can be used for an alternative course without prejudice to your commitment to medicine. ‘Science/mathematics subjects’ refers to Biology/Human Biology, Chemistry, Physics and Mathematics. It does not include Psychology.

A Levels
• A Levels in Chemistry and one of Biology/Human Biology, Physics, Mathematics.
• Most applicants have at least three science/mathematics A Levels and, of these, 30 per cent were successful in obtaining a place. Of the two per cent of applicants who offered A Levels in Chemistry, which must normally be passed within seven years of entry, may apply to the accelerated Graduate Course in Medicine (A101), see opposite.

International Baccalaureate
A Level subject requirements also apply to the IB – Higher Level subjects satisfy A Level subject requirements.

Other examination systems
See p147-9 and consult any College Admissions Tutor for further advice.

Admission assessment
All Standard Course applicants (including applicants to mature Colleges) are required to take the Biomedical Admission Task (BMAT) pre-interview assessment (www.cam.ac.uk/assessment).

You must be registered (by your assessment centre – often your school/college) for the BMAT in advance, see website for dates.

Work experience
To develop understanding of what a career in Medicine involves and your suitability for your intended profession, you are strongly advised (though not required) to undertake some relevant work experience, either paid or voluntary, in a health or related area. We are not prescriptive about how this is obtained, recognising the widely differing opportunities available.

Graduate entry
Graduates may apply for the Standard Course (A100) as an affiliate student (see p159) to one of Lucy Cavendish, St Edmund’s or Wolfson Colleges with:
• a good Honours degree (2.1 or above, science subjects provide the most useful preparation)
• passes at A Level (or equivalent), as left

Alternatively, UK and EU graduates from any discipline (who also satisfy the above, including A Level Chemistry, which must normally be passed within seven years of entry) may apply to the accelerated Graduate Course in Medicine (A101), see opposite.

Selection
Applicants must be keen scientists with a sound scientific understanding. As selection for medical school implies selection for the medical profession, admissions decisions are informed by national guidance on what makes a good doctor. In addition:
• trainee doctors must satisfy the GMC’s fitness to practise requirements, both when applying and throughout the course
• offer holders are required to undergo an enhanced Disclosure and Barring Service (DBS) check
• successful applicants are required to complete a confidential occupational health questionnaire and be immunised against certain infectious diseases

See full details at: www.undergraduate.study.cam.ac.uk/courses/medicine.

If you are an applicant with a disability, Specific Learning Difficulty or long-term health condition, you should contact a College Admissions Tutor as early as possible to discuss your needs and the course requirements. Such disclosures will be considered independently of your academic qualifications and the interview process.

Fact file

Graduate Course in Medicine

In addition to the Standard Course (A100), we also offer the Graduate Course in Medicine (A101). Open to UK/EU graduates of any discipline (see opposite for entry requirements), successful completion of the accelerated Graduate Course leads to the MB, BChir degrees in four years.

The Graduate Course integrates core medical science with clinical medicine, with an emphasis on the development of clinical skills through direct patient contact in hospital and community environments throughout East Anglia.

Please note that all applicants for this course need to complete the specific Graduate Course in Medicine application form in addition to their UCAS application.

You can find full details about the Graduate Course online at: www.medschl.cam.ac.uk/cgc.

I chose Medicine because it’s very academically and scientifically driven at the outset and more clinical towards the end, which opens up options when I leave.

Simon
Modern and Medieval Languages

Cambridge offers exceptional opportunities to study the languages and cultures of most European (and many non-European) countries. Our students acquire advanced linguistic and critical skills, as well as intercultural sensitivity, which places them among the most sought-after graduates on the job market.

Modern and Medieval Languages (MML) at Cambridge

The Cambridge course is uniquely flexible and interdisciplinary. You can pursue your interests in many areas – from Italian Renaissance art to contemporary Brazilian cinema, medieval German folk tales to socialist realism in Stalin’s Russia. MML also includes options in linguistics, such as the historical and cognitive dimensions of the languages you’re studying.

All our students study two languages, one of which can be learnt from scratch (the exceptions being French and Latin, for which A Level/IB Higher Level standard is required). No matter what your proficiency when you arrive, you leave with near native-speaker competence in at least one of your languages. Most of our language classes are run by native speakers.

Our Faculty is one of the largest in the country. It consists of six departments, whose members are internationally renowned experts in their fields. In the Guardian University Guide 2017, Cambridge came top for modern languages and linguistics.

Facilities and resources

Our students make good use of the Faculty library, the Media Centre (equipped for film studies) and extensive online Computer-Assisted Language Learning (CALL) resources, as well as bespoke language teaching and learning materials available at the Language Centre.

A year in...

MML students spend their third year abroad in one of three ways: they attend a foreign university, become an English-speaking assistant at a school, or do an internship with a firm. In the past, some have:

• worked at a lifestyle TV channel in Paris
• studied history at the Humboldt University in Berlin
• taught English as a British Council assistant in Buenos Aires
• conducted an orchestra in St Petersburg

You can tailor your year abroad to suit your own interests and later career goals, providing you spend at least eight months abroad and are constantly immersed in one of the foreign languages you are studying. If you wish, you can split the year between two countries, spending at least three months in each (see: www.mml.cam.ac.uk/ya).

You can study two of:

- French
- German
- Italian
- Portuguese
- Russian
- Spanish

Alternatively, you can combine any of these with either Classical Latin (if you’re taking it at A Level/IB Higher Level) or Classical Greek (which can be studied either post-A Level or from scratch).

If you wish to combine one of these modern European languages with Arabic, Hebrew or Persian, you can do so within the Asian and Middle Eastern Studies degree course (see p47-9).

It is also possible to combine one of these modern European languages with History – see History and Modern Languages (p70).
Modern and Medieval Languages (cont.)

Fact file

UCAS code
R800

Duration
Four years – BA (Hons) (Year 3 spent abroad)

2016 entry
Applications per place: 2
Number accepted: 176

Typical offers require
A Level A*A
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
All Colleges require A Level/IB Higher Level in at least one of the languages you want to study

Admission assessment
At interview written assessment, if interviewed (see p139 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference S (see p154-5)

Course outline
Teaching is made up of lectures, seminars, language classes, intensive oral work in small groups, and supervisions. For your supervisions, you prepare written work which you then discuss with a specialist in the field. In your first year, you can generally expect around 12-14 hours of teaching each week.

You’re assessed at the end of each year, primarily through written and oral examinations, and the submission of an extended research project (usually a dissertation) at the end of Year 3. You may also offer a second dissertation instead of one of the Part II written examination papers.

Year 1 (Part IA)
You study two languages, at least one at post-A Level/IB Higher Level standard. You should indicate which languages you’re interested in studying in your SAQ (see p7). The choice isn’t final, and many students change their mind before (or after) they start.

The main emphasis in Year 1 is on developing your language skills, taught by a range of methods including Faculty classes of up to 15 students, and supervisions in groups of two or three. You also take an introductory paper in which you explore three or more of the following topics:

- literature
- linguistics
- history
- thought
- film
- art

Year 2 (Part IB)
In your second year, you take five papers in total. You continue intensive language study with the aim of acquiring native or near-native fluency in both languages, and choose from a wide range of papers covering topics such as:

- literature
- linguistics
- history
- thought
- film
- art
- an introduction to a language and culture you haven’t studied before

You have the option to replace one exam with coursework in the second year.

Year 3 and 4 (Part II)
Year 3
In the third year, you spend at least eight months abroad, during which time you prepare a project that counts as one sixth of your final mark. This can be a dissertation, a translation project or a linguistics project.

Just before the fourth year starts, you take an oral examination back in Cambridge.

Year 4
You take six papers and are free to specialise in one language, to combine options from two or more languages, to take comparative options and/or to take up to two options from certain other courses (eg English, History).

You do advanced language work and focus on topics such as literature, linguistics, thought, history, film etc in one or two of your languages.

There are also a number of comparative papers on offer which allow you to combine the study of both of your languages. These include papers on European film, the body, and the linguistics of the Germanic, Romance and Slavonic language families. Many students replace one of their written papers with a further dissertation (currently 8,000-10,000 words).

Want to study more than two languages?
In the second and fourth years, it may be possible to take an introductory course in a language and culture you haven’t studied before. The languages offered are subject to availability but may include Catalan, Dutch, modern Greek, Polish, Portuguese and Ukrainian.

Another possibility (open to any member of the University) is to take a one-year course at the University’s Language Centre (see p12) to obtain a further language qualification. Courses are available in basic Arabic and Mandarin; and in basic, intermediate and advanced French, German, Italian, Russian and Spanish.

The teaching staff are so welcoming and give up loads of time to ensure the most productive experience possible. The year abroad is the icing on the cake.

Rory

Careers
Fluency in a foreign language, an understanding of foreign cultures, analytical and research skills are all in great demand on the job market. Employers – even those who are not primarily interested in languages – particularly value the experience, independence and cross-cultural awareness our graduates have gained during their year abroad.

Most graduates use their languages in their work, and all build on the many skills developed during their degree. Our graduates find an array of different jobs open to them. Recent destinations include the BBC World Service, international law firms, UNICEF and KPMG.

For a small number, the degree is more directly vocational: they become professional linguists (language teachers, translators or interpreters), usually after further specialised training. For further information on what our graduates go on to do, see: www.mml.cam.ac.uk/applying/careers.

Related courses
Anglo-Saxon, Norse, and Celtic 40
Arab and Middle Eastern Studies 47
Classics 52
English 64
History 68
Linguistics 80

Open days 2017
17 March – booking required, see the Faculty website
College open days until Cambridge Open Days – 6 & 7 July (see p158)
Music

Our course covers a broad range of music, as well as a great variety of ways of thinking about and understanding music, ranging from medieval plainchant to the blues, and from advanced analysis to the study of music and science.

Music at Cambridge

Over recent decades many of the most significant figures in British music have studied or taught at Cambridge: composers such as Alexander Goehr, Judith Weir and Thomas Adès, performers like Joanna MacGregor and Thomas Trotter, and conductors including John Eliot Gardiner, Christopher Hogwood and Edward Gardner. Our undergraduate course has a strong academic component, particularly focusing on history, analysis, composition and performance, but also offering a range of other topics (see the course outline).

Facilities and resources

As well as providing a location for lectures, seminars and research activities, the modern Faculty building also houses:

• a professional concert hall (seating 500)
• an extensive library of music, books, periodicals and recordings
• a purpose-built recording studio
• music computing laboratories

Students can borrow period instruments and make use of the Faculty’s Javanese gamelan and the Faculty organises a weekly Composers’ Workshop that’s open to all students.

In addition, the Faculty hosts several resident ensembles (the New Music Ensemble, Collegium Musicum, Endellion String Quartet, Britten Sinfonia and Academy of Ancient Music) which perform regularly and offer masterclasses, coaching and further composition workshops for students. These facilities and resources are complemented by the University Library and by the libraries, practice rooms and computer suites available in Colleges. College funds are available for instrumental or vocal lessons for those taking a performance course.

Careers

Music graduates are extremely attractive to employers and can follow a career in almost any field thanks to the transferable skills they acquire on our course.

Many of our students do enter the music profession in one guise or another. Recent graduates include pianist Thomas Trotter; and conductors including John Eliot Gardiner, Christopher Hogwood and Edward Gardner. Many of our students do enter the music profession in one guise or another. Recent graduates include pianist Thomas Trotter; and conductors including John Eliot Gardiner, Christopher Hogwood and Edward Gardner.

As well as studying one of the best music courses in the country, I've had opportunities for conducting, singing and acting that I just wouldn't have had elsewhere.

Emma

Year 1 (Part IA)

The first year consists of three major components:

• historical and critical studies – two and a half papers covering issues involved in understanding music and its relationship to society and culture. This includes the main historical developments of Western music from the medieval period to the present, and a selection of historical or contemporary case studies
• tonal skills – two papers giving you a thorough technical grounding in music of the Western tonal tradition through the acquisition of basic harmonic skills at the keyboard, aural work and writing music in a range of historical styles. This is a foundation for more advanced work in all musical fields
• music analysis – one paper that gives you an understanding of what makes music work through hands-on familiarity with a range of styles. This creates a bridge between your work in historical and critical studies and in tonal skills.

For your final half paper, you have the choice of giving a 15 minute recital, submitting an original composition or writing an extended essay.

Year 2 (Part IB)

You take a further paper in each of the core Part IA areas (historical studies, analysis and applied tonal skills), which together take up half of your time.

For the remaining half, you choose three papers from a range of different topics. Subjects available change from year to year but normally include:

• in-depth historical topics
• jazz and popular music
• ethnomusicology
• notation
• keyboard skills
• music and science
• performance studies (including recital)
• a dissertation of 5,000-7,000 words

Year 3 (Part II)

In the final year, you have even more choice. There are no compulsory papers – you choose six papers from a wide selection of options which reflect your own interests and which may also develop the skills and knowledge needed for your chosen career path. Examples of options available in recent years include:

• advanced performance
• a dissertation of 7,000-10,000 words
• composition
• Beethoven: the Late String Quartets
• The Magic of Miles Davis
• Exploring Music Psychology
• Persian Polyphony
• Nationalism and Music in the Middle East
• The Music Industry in the Digital Age
• Latin American Music and the Politics of Representation
• Iblis Gudimov and its Contexts
• Perception and Performance (including a practice-based project)

You can also work with individual staff members on your own projects, whether as an advanced performer, composer, historian, analyst, ethnomusicologist or music scientist. In this way, while our course gives you the solid understanding of the subject which a music degree should guarantee, it also offers you the flexibility you need to prepare for life after Cambridge.

Course outline

Teaching is provided through lectures, seminars and supervisions. In your first year, you can typically expect to have six lectures, three supervisions, and aural and keyboard skills classes each week. In later years, lectures decrease to make way for more seminar, small-group and one-to-one teaching.

Assessment takes place at the end of each year through written examinations; the submission of portfolios, compositions, essays and dissertations; and through recitals.

Fact file

UCAS code
W300

Duration
Three years – BA (Hons)

2016 entry
Applications per place: 2
Number accepted: 61

Typical offers require
A Level A/A/A
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9

All Colleges require A Level/IB Higher Level Music (ABRSM Grade 8 Theory at Merit and above may be accepted as a substitute)

Admission assessment
Some Colleges – an interview; written assessment, if interviewed (see p139 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference S (see p154-5)

Related courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>History</td>
<td>68</td>
</tr>
<tr>
<td>History of Art</td>
<td>72</td>
</tr>
<tr>
<td>Human, Social, and Political Sciences</td>
<td>74</td>
</tr>
<tr>
<td>Philosophy</td>
<td>102</td>
</tr>
<tr>
<td>Psychological and Behavioural Sciences</td>
<td>104</td>
</tr>
</tbody>
</table>

Open days 2017

College open days (arts) – 6 July, 7 July (see p150)

www.mus.cam.ac.uk
Natural Sciences

Natural Sciences is the framework within which most science subjects are taught at Cambridge. The course offers the biological and physical sciences listed opposite, and the option to specialise or to study a range of subjects.

Natural Sciences at Cambridge

Natural Sciences (NST) offers a wide range of physical and biological science subjects from 16 departments in a unique and demanding course. A broad first year is combined with increasing specialisation in the second year, and the possibility of total specialisation from the third year.

The breadth of the course reflects the blurring of boundaries between the different sciences and before committing yourself to one department you study a variety of subjects, some of which may be new to you. This means you can change your mind about which subject to specialise in.

Visit the Departments’ websites for in-depth subject information and details about current research. All of these sites, as well as suggested reading for prospective students, can be accessed from the Natural Sciences website at: www.natsci.tripos.cam.ac.uk.

Flexibility and choice

The flexibility of the course makes it possible to take purely biological sciences, purely physical sciences or a combination of both, according to your interests.

Many students discover a passion for the new subjects that they start in the first year, such as Earth Sciences or Materials Science, and continue with these in subsequent years.

Most students pursue a single advanced subject in Year 3 (Part II), and undertake a research project or dissertation in that field. Alternatively, you can take the broader Biological and Biomedical Sciences option or the Physical Sciences option.

After Natural Sciences?

Almost half of our graduates continue with further study and research, either in Cambridge or at other universities, in the chemical industry, pharmaceuticals, infection and immunology, biotechnology, environmental management or nanotechnology. Natural Sciences prepares you well for the challenges of research, especially in emerging interdisciplinary areas.

Natural Sciences students develop a range of skills that are highly valued by employers and they go into a wide range of careers; for example recent graduates include a maths teacher, a product development scientist, an investment banking analyst and a management consultant.

Course overview

Natural Sciences allows you to experience new areas of science, discover the interconnections between apparently diverse subjects, and gain an insight into different scientific methods.

Year 1 (Part IA)

You choose three science subjects from:
- Biology of Cells
- Chemistry
- Computer Science
- Earth Sciences
- Evolution and Behaviour
- Materials Science
- Physics
- Physiology of Organisms

Plus one Mathematics option from:
- Mathematics
- Mathematical Biology

Year 2 (Part IB)

You choose three subjects from:
- Animal Biology
- Biochemistry and Molecular Biology
- Biology of Disease
- Cell and Developmental Biology
- Chemistry A
- Chemistry B
- Earth Sciences A
- Earth Sciences B
- Ecology
- Experimental Psychology

Years 3 and 4 (Parts II and III)

Follow a broad curriculum:
- Biological and Biomedical Sciences
- Physical Sciences
- Or specialise:
  - Astrophysics
  - Biochemistry
  - Chemistry
  - Earth Sciences
  - Genetics
  - History and Philosophy of Science
  - Materials Science
  - Pathology
  - Pharmacology
  - Physics
  - Psychology, Development and Neuroscience
  - Plant Sciences
  - Psychology
  - Psychology, Neuroscience and Behaviour
  - Systems Biology (Part II only)
  - Zoology

These subjects offer a fourth year/Part III option, leading to an MSci degree.

I wasn’t sure which area of science to specialise in and the first year allowed me to get a better insight into my strengths and weaknesses before deciding.

Tom
Entry requirements for Natural Sciences

'Science/mathematics subjects' refers to Biology, Chemistry, Physics, Mathematics and Further Mathematics. It does not include Psychology.

All Colleges require A Levels/IB Higher Levels in at least two science/mathematics subjects, see also subject requirements for Year 1 options (right/opposite).

Some Colleges require AS or A Level/IB Standard or Higher Level in a third science/mathematics subject and/or particular subjects. See individual College websites for details.

A Levels

Most students have at least three science/mathematics A Levels and having just two will restrict your Part IA subject choice. In these circumstances you'll normally be expected to achieve A in both of the science/mathematics subjects encouraged and to take an additional science/mathematics AS Level. The more useful combinations are:

- A Level Chemistry, A Level Mathematics, and AS Level Biology or Physics
- A Level Physics, A Level Mathematics and AS Level Further Mathematics
- A Level Biology, A Level Chemistry, and AS Level Mathematics or Physics

If you don’t have a A Level Mathematics, you’re required to complete some preparatory work before the start of the course and must take Mathematical Biology as your mathematics subject in Year 1 (see opposite).

International Baccalaureate

The A Level subject advice above also applies to the IB.

Other examination systems

See p147-9 and consult any Admissions Tutor for further advice.

 Admission assessment

Pre-interview written assessment (see p13 and www.cam.ac.uk/assessment)

Year 1 (Part IA)

You study three experimental sciences (from eight, 1-8 below/ opposite) plus one mathematics (from two, 9-10), chosen at the start of the first term.

You should indicate in your SAQ (see p7) whether your interests lie broadly in biological or physical sciences. The choice isn’t absolute, and many students change direction before they start or as they progress.

For each option, you usually have three hours of lectures, some practical work and one supervision per week. Assessment varies depending on the option taken but always includes written examinations. There may also be practical examinations or continuous assessment of practical work.

1. Biology of Cells

Highly desirable A Level Chemistry

Useful preparation A Level Biology

- Biology of Cells introduces you to cell biology – topics such as cell structure and dynamics, macromolecules, biochemistry, genetics, molecular biology and development, and cell communication.
- This option is for biological and physical sciences students who wish to explore the topical and rapidly advancing fields of cell biology, genetics and bioinformatics.
- The Biology of Cells and Computer Science options cannot be combined.

2. Chemistry

Essential A Level Chemistry (A Level Mathematics is essential to continue to Chemistry A in Part IB)

Highly desirable AS/A Level Mathematics

- Chemistry is concerned with how and why molecules form, and what determines their properties and the way in which they react.
- You learn about the key concepts and theories which help us to understand and rationalise a wide range of molecular phenomena.

3. Computer Science

Essential A Level Mathematics

Useful preparation AS/A Level Further Mathematics and/or Physics

If you wish to take this option, you’re required to complete a preparatory online course.

- In Computer Science, you explore the theoretical and practical foundations of computer science – computer programming (in C, Java and C#), algorithm design and analysis, and floating point and numerical computation.
- The Computer Science and Biology of Cells options cannot be combined.

4. Earth Sciences

No previous subject knowledge necessary

- Earth Sciences introduces the processes that create terrestrial planets such as ours – you learn about the forces driving plate tectonics, volcanic eruptions, climate change and biological evolution, and discover why other planets are different to Earth.
- Practical experience is gained in the laboratory and on a compulsory one-week field course in Scotland.
- Earth Sciences offers a wide scientific perspective and leads onto a broad range of careers. See the introductory course film on the Department website.

5. Evolution and Behaviour

Highly desirable A Level Biology

- This option explores the origin, evolution and diversity of life on Earth; major transitions such as the origin of eukaryotes and multicellularity; and the evolution of behaviour, intelligence, sociality and culture.
- You develop practical biological skills through practical classes and a field course.
- Evolution and Behaviour is relevant to the study of Cell and Developmental Biology, Ecology, Genetics, Plant Sciences, Psychology and Zoology.

6. Mathematics

Essential A Level Mathematics, and either Chemistry or Physics

- Mathematics focuses on mathematical techniques used in the physical sciences.
- Subjects covered include vector calculus, vector algebra, matrices, complex numbers, ordinary and partial differential equations, linear probability theory and computing techniques.

10. Mathematical Biology

Highly desirable A Level Mathematics

- Mathematical Biology focuses on mathematics relevant to biologists, particularly mathematical modelling.
- Subjects covered include differential equations, compartmental analysis, coupled non-linear systems, probability, statistics, matrix algebra and ecological modelling.
- Weekly computing practical classes teach simple programming via biological examples.
- A significant amount of A Level Mathematics material is needed to understand Mathematical Biology. Therefore, if you don’t have A Level Mathematics you’re required to complete 20-40 hours of preparatory work before you arrive, and are given alternative teaching and support during the first term in order to develop necessary mathematical skills.

Further information about the options, and the various teaching and assessment methods can be found at: www.natsci.cam.ac.uk/subject-information/part1a.

Being taught by your subject’s leading minds is an experience in itself, and who can explain ideas better than the people who actually came up with them!

Nick

www.natsci.cam.ac.uk

continued overleaf
Natural Sciences (cont.)

Year 2 (Part IB)

In Part IB, you choose three of the following subjects. Some build directly on Part IA subjects and some introduce what are essentially new areas.

For most subjects you can typically expect to have three lectures, some practical work and a supervision each week.

For timetabling reasons not all combinations are possible.

Animal Biology
• Explore the evolution and diversity of animals, and look at how their form, function and behaviour are adapted to their lifestyle and their environment.
• Comprises sections on Behaviour and Ecology, Brains and Behaviour, Insect Biology, Vertebrate Evolutionary Biology and Evolutionary Principles.

Biochemistry and Molecular Biology
• This option studies biochemical processes at the molecular and cellular level, building on Part IA Biology of Cells.
• Topics explored include gene structure and expression, enzyme catalysis, protein engineering, and control of cell growth and differentiation.
• Practicals teach important skills that are developed in subsequent years.

Biology of Disease
• This option is concerned with the scientific study of disease and encompasses all aspects of disease, including causes and effects, and the organism’s response to disease.
• Biology of Disease involves a broad range of biological disciplines, including cellular and genetic pathology, immunology, microbiology, parasitology and virology.

Cell and Developmental Biology
• The subject consolidates and extends your knowledge from Part IA Biology of Cells of how cells work and interact.
• It covers sub-cellular structure and function, signalling within and between cells, the development of multicellular tissues and organisms, and the experimental approaches to these.

Chemistry A
• Chemistry A focuses on the theories used to understand chemical bonding, structures and reactivity.
• You’re introduced to quantum mechanics and shown how this and related theories can be used to make sense of many chemical and physical properties.

Chemistry B
• Chemistry B focuses on three main topics:
  • organic (carbon-based) chemistry, which forms the basis of molecules as diverse as pharmaceuticals and synthetic polymers
  • the enormous range of compounds and structures formed by other elements (inorganic chemistry)
  • the chemical processes which are the basis of life

Earth Sciences A
• This option covers the surface environments of the Earth — the atmosphere, hydrosphere and biosphere — together with their geological products.
• It encompasses sedimentology, paleobiology, oceanography, tectonics and sedimentary basins.
• You have laboratory work and compulsory field courses in Cumbria and Southwest England.

Earth Sciences B
• Earth Sciences B deals with our planet’s formation and examines the chemical and physical processes in its interior.
• It covers mineral growth and crystallisation under different conditions, and the role of plate tectonics in igneous and metamorphic rock formation and its influence on surface volcanism.
• You have laboratory work and compulsory field courses in Cumbria and Southwest England.

Ecology
• Ecology explores the relationships between plants, animals and their environment.
• It covers marine, freshwater and terrestrial systems; human impact on climate change and aerial pollution; ecological genetics and ecological dynamics; and the world’s biodiversity, its origin and conservation.
• Practical work includes a field course in Surrey.

Experimental Psychology
• Experimental Psychology is the study of the mind, brain and behaviour through experimental and observational methods.
• Teaching is supported by practical classes.
• Topics covered include sensory processes and perception, learning, reasoning, cognitive and social development, psychopathology, social psychology, and intelligence.

History and Philosophy of Science
• This option explores the historical, philosophical and social dimensions of the sciences.
• Topics covered extend from early astronomy and alchemy to the discovery of DNA and climate change.
• We examine what is so special about science and what is the role of social and historical context in the production of knowledge.

Materials Science
• Materials Science looks at advances in materials and their chemical, electrical and mechanical properties, ranging from metals to polymers.
• You study how materials function in service, and the scientific principles of functional materials, such as semiconductors.

Mathematics
• Mathematics incorporates topics including more advanced matrix theory, Cartesian tensors, more advanced theory of differential equations, Fourier transforms, calculus of variations, complex analysis and group theory.
• Some topics involve continually-assessed practical work, using computers to illustrate and exploit numerical techniques.

Neurobiology
• Neurobiology covers the development, function and plasticity of the nervous system.
• You explore the different sensory systems, the motor system and higher functions of the nervous system (including motivation, emotion, language and memory).

Pharmacology
• Pharmacology deals with the effects of chemicals on biological materials.
• The option covers how receptors work at the molecular level, intracellular messengers, synaptic pharmacology, drug discovery, antimicrobial and anti-cancer drugs, steroid receptors, and the use of drugs to control inflammation, immune responses, the central nervous system and cardiovascular system.

Physics A
• Physics A provides a rigorous grounding in the principal themes of modern physics.
• The option deals with waves and optical systems, quantum physics and an introduction to condensed matter.
• A module on experimental methods supports your practical work.

Physics B
• Physics B lays the foundation for a professional understanding of physics and is built on the three key areas of classical mechanics, electromagnetism and thermodynamics.
• All students also take an introductory course in C++, programming, with associated practical exercises.

Physiology
• In Physiology, you study systems physiology in detail, concentrating on mammals, in particular man.
• The option covers function at the cellular level to the complex operation of major body systems at the level of the whole organism, and how these systems respond to challenges.

Plant and Microbial Sciences
• Plant and Microbial Sciences considers the fundamental biology of plants and microbes.
• Studying plants and microbes is essential to deliver sustainable solutions to global issues including food security, disease control, drug discovery and bioenergy supplies.

Further information about the options, and the various teaching and assessment methods can be found at: www.natsci.tripos.cam.ac.uk/subject_information/part_1b.

The third-year research project helps you to see if you want a career in research, and the lab experience is highly appreciated by employers and institutes.

Sophia
Natural Sciences (cont.)

Years 3 and 4 (Parts II and III)

Students can retain a broad study of science, though most pursue a major subject to a depth matching that of single science degree elsewhere.

In Parts II and III, lecturers are actively researching the topics being covered and many are world leaders in their field. Practical work is open-ended and most students carry out a significant research project which is assessed as part of the final examination.

Specialising in Part II is appropriate for continuation to a fourth year (Part III) and progression to Part III is dependent on a satisfactory level of performance.

Some Part II subjects have a competitive entry due to limited space.

A BROAD CURRICULUM

Biological and Biomedical Sciences

- Maintain a breadth of study by taking a major subject in a biological option and a minor subject from options in biology, biological anthropology, education, sociology and the history and philosophy of science.
- A dissertation replaces the practical laboratory-based research project.

Physical Sciences

- This option allows you to continue your studies in a chosen discipline together with another subject.
- You essentially take half of one of Part II Chemistry, Earth Sciences or Physics, alongside a further Part IB subject and write a dissertation.

PURSUE A SPECIALISM

Astrophysics

- Part II Astrophysics introduces a range of contemporary astrophysics topics, such as relativity theory, physical cosmology and stellar dynamics.
- Part III students choose from options offered in Part II of the Mathematics course and by the Department of Physics, and undertake a substantial project.

Biochemistry

- Part II Biochemistry covers macromolecule structure and function, gene expression, and molecular cell structure and function of prokaryotic and eukaryotic organisms, and includes a practical project.
- Part III features a two-term research project carried out alongside a research team directed by a leading scientist, and discussion of advanced topical papers.

Chemistry

- Part II Chemistry offers various options in which to specialise, ranging from synthetic organic chemistry to atmospheric science, and from theoretical chemistry to chemical biology.
- In Part III, you join a research group in the Department and work on your own project for two terms.

Earth Sciences

- Some specialisation is possible within tectonics and geophysics, petrology, climate science and surface processes, palaeoecology and mineral sciences.
- Part II features an independent mapping project and a field course in Greece (both compulsory trips).
- Part III involves a major research project and a compulsory field course in Spain.

Genetics

- Part II Genetics covers how genetic information is passed from generation to generation, how genes work and control organism development and behaviour, and processes that give rise to genetic change.
- More informal sessions explore the social aspects, and implications, of genetic knowledge.

History and Philosophy of Science

- Part II offers a broad range of papers concerning the historical development of science, medicine and technology, the methods of scientific enquiry and the social and political dimensions of scientific knowledge.
- Part III students have the opportunity to carry out focused research on the topics that interest them.

Materials Science

- Materials Science is based in the physical sciences but links to the biological sciences and engineering.
- Part II focuses on the links between the processing, structure and properties of materials classes.
- Part III concentrates on recent developments, modern experimental techniques and cutting-edge research.

Pathology

- Pathology combines numerous biological disciplines and in Part II you choose two from: Cancer and Genetic Diseases, Dynamics of Infectious Diseases, Immunology, Microbiology and Parastologis and Virology.
- An important element of the course is a project in which you join a research group.

Pharmacology

- Part II Pharmacology covers contemporary topics taken to the level of current research.
- Subjects covered include intracellular messengers, ion channels and transporters, anti-cancer drugs, strategies for drug discovery, and the control of neurodegenerative disease.
- A research project enables you to join an active research group.

Physics

- Part II encompasses the core areas of electromodynamics, relativity, advanced quantum theory and statistical physics.
- Part III options include astrophysics, particle physics, and soft matter and biological physics.
- You also undertake a substantial project within a research group.

Physiology, Development and Neuroscience (PDN)

- Physiology, Development and Neuroscience are broad but interlinked subjects.
- In Part II, you focus on Development and Reproductive Biology, Integrative Physiology or Neuroscience, or combine topics from all three.
- You take part in cutting edge research during a two-term research project.

Plant Sciences

- Plants are increasingly the focus of key global issues, maintaining food, fuel and biodiversity despite climate change.
- You specialise in areas of your choice. Lecture modules include workshops and discussion groups, and you conduct a research project embedded within one of our labs.

Psychology

- Part II Psychology enables you to pursue interests within biological, comparative and evolutionary psychology or human psychology.
- You choose from various options and work with leading scientists on an original research project.
- The course is accredited by the British Psychological Society.

Psychology, Neuroscience and Behaviour

- This option covers developmental neurobiology, molecular neurobiology, sensory transduction, central mechanisms of sensation and behaviour, neural circuits, control of action, memory and higher functions, and neural degeneration and regeneration.
- Technical workshops and an experimental research project of your choice provide practical training.

Systems Biology (Part III only)

- Systems Biology determines how parts interact to make a working organism, using computer models to describe the interaction networks and predict their performance.
- The option comprises lectures, computer-based practicals, seminars and a research project working alongside leaders in the field.

Zoology

- Zoology encompasses cell and developmental biology, behaviour and behavioural ecology, molecular approaches to evolution, palaeontology, population biology and conservation science.
- You choose options from these areas, and some other Part II subjects, and carry out research projects, working with leading scientists in these fields.

Further information about the options, and teaching and assessment methods can be found at: www.natsci.tripos.cam.ac.uk/subject-information/part2.
Philosophy

Do you enjoy arguments on the pros and cons of general issues? Do you relish puzzle-solving? Do you like subjects that emphasise rigorous thought? Our Philosophy course encompasses all of these and much more besides.

Why Philosophy at Cambridge?

Philosophy explores human thought, the basis of knowledge, the nature of reason, consciousness and cognition, as well as the foundations of value and political theory. Its questions are intriguing and its study requires complex critical thinking, rigorous analysis and consideration of new perspectives.

Cambridge occupies a distinguished place in the history of philosophy. It was here, in the early twentieth century, that Russell, Moore, Wittgenstein, Ramsey and others developed the analytic style of philosophy that is now prominent in much of the world. Today, the Faculty retains a strong commitment to this analytic tradition, combining it with study of the history of philosophy from Plato to the present day to offer one of the most comprehensive courses of its kind available anywhere in the world.

Teaching and learning

Our approach emphasises the values of the analytic school: rigour, clarity and independent thought. But its content extends well beyond the analytic tradition and its main preoccupations. For instance, we currently offer papers on Greek and Roman, and early modern philosophy, as well as political philosophy and aesthetics.

You don’t need to have studied philosophy previously, but we do recommend you do some preliminary reading (see the faculty website for suggestions).

The Faculty has close links with related faculties such as Classics, History, and History and Philosophy of Science, so you can take advantage of a wide range of specialised lectures and seminars. You also have access to many excellent libraries.

After Philosophy

Although a Philosophy degree isn’t an essential qualification for any particular career, the analytical and critical skills developed through its study (eg rigour, precision, creativity) prepare our graduates for a variety of professions including business, computing, journalism, administration and law. Around a quarter of recent graduates have gone on to further study, with others starting careers in publishing, teaching, banking and investment, arts and recreation, IT and public services.

You then discuss with your supervisor. Although it varies throughout the year, each week you typically have between six and 12 lectures, and between one and three supervisions and/or small classes.

Year 1 (Part IA)

The course is designed to accommodate the many students studying philosophy for the first time. In the first year, you acquire the reasoning skills that enable you to tackle philosophical problems and to think intelligently about abstract questions generally, not just gather information about who said what. Therefore, you’re encouraged to approach topics in your own way and we organise regular discussion groups for first- and second-year students.

Part IA gives you an introduction to philosophy through the study of four core compulsory papers:

- Metaphysics and Philosophy of Mind
- Ethics and Political Philosophy
- Logic
- Set Texts, such as Plato’s Meno, Descartes’ Meditations on First Philosophy and J S Mill’s On Liberty and The Subjection of Women

Year 2 (Part IB)

Years 2 and 3 focus on areas that particularly interest you. Part IB is about exploring the philosophical aspects of a range of issues, both practical and theoretical.

There are two compulsory papers:

- Metaphysics and Epistemology
- Logic

You then choose two further subjects from:

- Ethics
- Greek and Roman Philosophy (from Classics)
- Early Modern Philosophy
- Philosophy of Science
- Political Philosophy
- Experimental Psychology (from Natural Sciences, involving practical work)

Course outline

Much of the teaching takes the form of lectures, with additional classes for some subjects (such as first-year Logic). You have weekly supervisions, for each of which you’re given topical reading and asked to write an essay which you then discuss with your supervisor. Although it varies throughout the year, each week you typically have between six and 12 lectures, and between one and three supervisions and/or for small classes.

Assessment is predominantly by written examinations. However, in Parts IB and II one written examination can be substituted with two extended essays of 3,000-4,000 words. Part II offers the additional alternative of submitting a dissertation of 6,000-8,000 words on a subject of your choice.

Fact file

UCAS code

V500

Duration

Three years – BA (Hons)

2016 entry

Applications per place: 4
Number accepted: 48

Typical offers require

A Level A/AA
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
No specific subjects required by any Colleges
Useful preparation Mathematics, an arts/science mix, an essay-based subject

Admission assessment

At-interview written assessment, if interviewed
(see p38 and www.cam.ac.uk/assessment)

Colleges

Available at all Colleges except Murray Edwards

Location

Map reference 5 (see p154-5)

Related courses

Classics

52

Mathematics

82

Natural Sciences

94

Psychological and Behavioural Sciences

104

Theology, Religion, and Philosophy of Religion

106

Open days 2017

College open days (arts)
Cambridge Open Days – 6 July, 7 July (see p150)

I was drawn to philosophy because of the depth of the questions it tries to answer, and also because of the breadth of topics within the course.

Mat
Psychological and Behavioural Sciences

Psychological and Behavioural Sciences is an exciting, broad and flexible degree that covers all aspects of psychology.

Our course
Psychology is very diverse – overlapping with and contributing to many other disciplines such as anthropology, archaeology, computer science, linguistics, neuroscience, philosophy and sociology. Psychological and Behavioural Sciences (PBS) at Cambridge gives you the opportunity to study cognitive, social, developmental and biological psychology within the broader context of the behavioural sciences.

The course covers, for example, cognitive psychology, psychopathology, language, brain mechanisms, gender, family relationships and influences, personality, and group social behaviour. A wide range of optional courses allow you to study the topics that interest you most in greater depth.

Teaching and facilities
In the Department of Psychology, you’re taught by lecturers and researchers of international excellence. Subject societies and seminar programmes offer regular talks from guest speakers too.

In addition to this academic expertise, you have access to the Department library and specialist collections held in associated departments’ libraries – amounting to around 50,000 books and more than 150 periodicals – as well as other resources and computing facilities.

Professional accreditation and careers
The University’s teaching of psychology is accredited by the British Psychological Society (BPS). This means that students who successfully graduate (with at least second class Honours) achieve the ‘graduate recognition’ needed to pursue a career in psychology.

Many students continue with further study and research, and graduates are eligible for admission to professional courses in clinical, educational, forensic or applied psychology. Numerous past students of psychology at Cambridge have gone on to prominent positions in psychology and related fields throughout the world.

Our course also equips you with skills and knowledge applicable in a range of professional sectors. Other recent graduates have entered careers in the media, management, the Civil Service, finance, law and business.

Not all courses here give you the opportunity to cross the boundary between science and humanities – be prepared for the PBS fun!

Quain

Fact file

Typical offers require
A Level A*A*A
IB 40-42 points, with 776 at Higher Level
No specific subjects required by all Colleges

Other qualifications See p147-9

Colleges
Available at all Colleges except Peterhouse

Location
Map references D, M (see p154-5)

Admission assessment
Pre interview written assessment (see p139 and www.cam.ac.uk/assessment)

Professional accreditation and careers
The University’s teaching of psychology is accredited by the British Psychological Society (BPS). This means that students who successfully graduate (with at least second class Honours) achieve the ‘graduate recognition’ needed to pursue a career in psychology.

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Our course also equips you with skills and knowledge applicable in a range of professional sectors. Other recent graduates have entered careers in the media, management, the Civil Service, finance, law and business.

Not all courses here give you the opportunity to cross the boundary between science and humanities – be prepared for the PBS fun!

Quain

Course outline
Teaching is provided through lectures, classes or seminars, and supervisions. Some papers include a practical element which takes place in laboratories. You can typically expect two lectures a week for each paper.

You also have one or two supervisions a week to discuss your work and develop your reasoning and ideas.

Year 1 (Part IA)
In Part IA, you take a total of four papers, two of which are compulsory:
- Introduction to Psychology
- Psychological Enquiry and Methods (this includes practical demonstrations and exercises)

The remaining two papers are chosen from a selection of up to nine options. The optional papers available each year may vary but subjects include:
- biological and social anthropology
- education
- evolution and behaviour
- politics
- philosophy
- computer science
- sociology

At the end of the year, you sit a three-hour written examination in each paper.

Year 2 (Part IB)
Part IB provides a foundation for the research-led teaching of the final year while also allowing you to begin to specialise in those areas that most interest you.

You take four papers in total. All students take:
- the Social and Developmental Psychology paper
- the Cognitive Neuroscience and Experimental Psychology paper, which teaches research methods and includes laboratory work
- two optional papers

The optional papers are selected from a range of around 19 available. The subjects may change from year to year but typically include papers in:
- biological and social anthropology
- history and philosophy of science
- education
- sociology
- neurobiology
- philosophy

You sit a written exam in each paper at the end of the year.

Year 3 (Part II)
In your final year, you undertake a research dissertation of 7,000 words on a psychology topic of your choice. You also choose a further three papers from a selection available, each of which is assessed by a written examination.

The subject of these papers may change from year to year but typically include the following topics:
- social and developmental psychology
- cognitive and experimental psychology
- behavioural and cognitive neuroscience
- legal psychology
- criminology
- linguistics
- selected subjects from those offered at Part IB

Open days 2017
College open days (science): Cambridge Open Days – 6 July, 7 July (see p150)

Related courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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<tbody>
<tr>
<td>Computer Science</td>
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<tr>
<td>Education</td>
<td>58</td>
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<tr>
<td>Human, Social, and Political Sciences</td>
<td>74</td>
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<tr>
<td>Linguistics</td>
<td>80</td>
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<tr>
<td>Natural Sciences</td>
<td>94</td>
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Open days 2017
College open days (science): Cambridge Open Days – 6 July, 7 July (see p150)

Map references D, M (see p154-5)

UCAS code C800
Duration Three years - BA (Hons)
2016 entry Applications per place: 7
Number accepted: 75

Typical offers require
A Level A*A*A
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9
No specific subjects required by all Colleges

Some Colleges require A Level/IB Higher Level Biology, Mathematics; an A Level/IB Higher Level science/mathematics subject

Admission assessment
Pre interview written assessment (see p139 and www.cam.ac.uk/assessment)

www.pbs.tripos.cam.ac.uk
Theology, Religion, and Philosophy of Religion

This fascinating course enables you to combine the study of world religions with philosophy, ethics, history, literature, languages, sociology and classics. It explores contemporary and historic thought, culture and texts.

A relentless pursuit
The study of theology and religion is increasingly important in a world where religious belief is a driving force behind social and political events.

Theology, Religion, and Philosophy of Religion is a broad and demanding degree that addresses fundamental questions through a range of religious traditions and philosophical standpoints. Encouraging the history, practice and thought of the major world religions of Buddhism, Christianity, Hinduism, Islam and Judaism, the course develops your understanding of the significance of religion and its cultural contexts.

You have considerable freedom to create a varied programme of study by exploring a diverse range of topics. Alternatively, you can follow a particular pathway if you wish to specialise in a specific area of interest.

World class resources
Cambridge is an excellent place to study religion – offering access to the latest research and historic resources in the Faculty, College and University libraries. For example, the University Library holds the Codex Bezae (an important early version of the Gospel) and the Genizah collection (a globally significant source for medieval Judaism).

Our outstanding teaching is delivered by world experts in a variety of faith traditions and in the study of religion, religious practice, and philosophy of religion.

Excellent career prospects
Our course equips students with significant transferable skills that are highly valued in a wide range of professions. Around 40 per cent of our students continue to further study in theology or related disciplines, teacher training or law conversion courses. Other recent graduates have gone on to positions such as equity broker for an investment bank, marketing campaign executive, personal assistant to the head of a philanthropic foundation, and assistant private secretary in the Civil Service.

Theology combines breadth and depth, allowing a huge variety of options for different people – I’m always amazed at the number, range and quality of the papers offered.

Dominic

Course outline
Teaching is provided through lectures, classes and supervisions. You can expect up to nine hours of classes and lectures each week (including six for non-language papers and three for languages), as well as a weekly supervision. Assessment is mainly by three-hour written examinations, but some papers are assessed by coursework.

Year 1 (Part I)
You take five papers designed to give you a broad introduction to the concepts, knowledge and skills required in the main areas of study. There are two compulsory subjects:

• one scriptural language (studied from scratch, no prior knowledge is expected) – Hebrew, New Testament Greek, Qur’anic Arabic or Sanskrit
• a paper in biblical studies, either David: Israel’s Greatest Hero? or Jesus and the Origins of the Gospel (you can take the other in place of one of the divins below)

Plus three other papers from a choice of five, currently:

• Christianity and the Transformation of Culture – a detailed investigation of Christianity in England before, during and after the Reformation
• The Question of God – exploring some of the major themes of Christian theology
• Understanding Contemporary Religion – an introduction to the sociological study of religion
• World Religions in Comparative Perspective – looking at the history, beliefs and practices of the main world religions and the problems of comparing them
• Philosophy of Religion and Ethics – introducing key questions in philosophy of religion and religion and ethics, ranging from antiquity to contemporary controversies

Year 2 (Part II A)
This builds on the knowledge and skills acquired in Part I. A wide choice of options is available, enabling you to develop a course suited to your own interests (scriptural languages are optional at this stage). You choose four papers out of 17, currently including:

• Introduction to Islam
• Ethics and Faith
• Philosophy of Religion: God, Freedom and the Soul
• Great Theologians
• Life and Thought of Religious Hinduism and of Buddhism
• Christianity in Late Antiquity
• Religious Themes in Literature

You can also choose to take the Part IA Logic paper from the Philosophy course.

Year 3 (Part II B)
In your final year, you choose four from a wide range of Special Subjects and interdisciplinary papers (topics may vary), such as:

• Religious Experience: Mesmerism, Spiritualism and Psychical Research
• Christianity and Society in Africa and its Diaspora
• Theology and the Natural Sciences: God and Creatures
• God, Metaphysics and the Modern Challenge
• Jews, Christians and Muslims Before and After Muhammad
• New Testament Christology
• Political Theology
• Judaism and Western Philosophy

You can choose to write a dissertation of 10,000 words in your third year instead of one paper.

Fact file
UCAS code
V600
Duration
Three years – BA (Hons)
2016 entry
Applications per place: 2
Number accepted: 43

Typical offers require
A Level A/AA
IB 40-42 points, with 776 at Higher Level
Other qualifications See p147-9

No specific subjects required by all Colleges
Some Colleges require A Level/IB Higher Level in an essay-based subject

Admission assessment
At-interview written assessment, if interviewed
(see p193 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges except Churchill

Location
Map reference 5 (see p154-5)

Related courses
Asian and Middle Eastern Studies
Classics
History
History of Art
Human, Social, and Political Sciences
Philosophy

Open days 2017
24 April, 6 July – booking required, see the Faculty website
College open days (arts)
Cambridge-Open Days – 6 July, 7 July (see p150)
Veterinary Medicine

Cambridge offers a world class opportunity to study the scientific basis of veterinary medicine and clinical veterinary science. Our course provides the fundamental building blocks on which to develop and excel in any veterinary field.

**Veterinary Medicine at Cambridge**

The Department of Veterinary Medicine has an international reputation as a centre of excellence, and is performing world class veterinary research. A major strength of the Cambridge course is the extensive use of practical teaching and the emphasis on small-group teaching. Our staff includes world leaders in their field and our facilities include state-of-the-art equipment, a five-theatre small animal surgical suite, an equine surgical suite and diagnostic unit, a superb post-mortem unit, and a Clinical Skills Centre that’s available to students in all years. We also have one of Europe’s leading cancer therapy units with a linear accelerator for delivering radiotherapy.

**Selection**

We are looking for committed students who are interested in the scientific principles that underlie both the health and disease of animals. In addition:

- trainee veterinary surgeons must satisfy the Royal College of Veterinary Surgeons’ fitness to practice requirements, both when applying and throughout the course
- offer holders are required to undergo an enhanced confidentiality occupational health questionnaire
- successful applicants are required to complete a confidential occupational health questionnaire
- see full details and guidance at: www.undergraduate.study.cam.ac.uk/courses/veterinary-medicine.
- If you are an applicant with a disability, Specific Learning Difficulty or long-term health condition, you should contact a College Admissions Tutor or the Director of Teaching at the Department of Veterinary Medicine as early as possible to discuss your needs and the course requirements. Such disclosures are considered independently of your academic qualifications and the interview process.

**Careers**

The Cambridge course equips you with the clinical skills and scientific understanding required to enter practice (in the UK and EU) and other areas of veterinary work. There are also many opportunities to enter research in universities, Research Council institutes and private companies, and to obtain specialist postgraduate qualifications. In addition, career openings are available with government agencies, animal charities (RSPCA, PDSA etc), pharmaceutical companies, and in academic clinical posts.

**Entry requirements for Veterinary Medicine**

You may enter up to four veterinary medicine/science courses in your UCAS application. Your remaining choice can be used for an alternative course without prejudice to your commitment to veterinary medicine.

**A Levels**

- A Levels in Chemistry and one of Biology/Human Biology, Physics, Mathematics.
- Most applicants have at least three science/mathematics A Levels and some Colleges require this and/or particular subjects. See College websites for details.
- Please note that in the past three admissions rounds, 96 per cent of applicants for Veterinary Medicine offered three or more science/mathematics A Levels and, of these, 36 per cent were successful in gaining a place. Of the four per cent of applicants who offered only two science/mathematics A Levels, 18 per cent were successful in gaining a place.

**International Baccalaureate**

A Level subject requirements also apply to the IB – Higher Level subjects satisfy A Level subject requirements.

**Related courses**

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<th>Natural Sciences</th>
<th>94</th>
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**Other examination systems**

See p147-9 and consult any College Admissions Tutor for further advice.

**Admission assessment**

All applicants (including applicants to mature Colleges) are required to take a pre-interview written assessment (see p139 and www.cam.ac.uk/assessment).

**Work experience**

Work experience is not a requirement for applicants but some experience is useful to understand the profession and what is required of its members.

**Graduate entry**

Graduates may apply as an affiliate student (see p15) to one of Lucy Cavendish, St Edmund’s or Wolfson Colleges with:

- a good Honours degree (2.1 or above, science subjects are desirable)
- passes at A Level (or equivalent), as left

**Open days 2017**

6 July, 7 July, 15 September – booking required, see the Department website for information and for details of other events offered.

**College open days (science)**

Cambridge Open Days – 6 July, 7 July (see p150).
Veterinary Medicine (cont.)

Course outline
At Cambridge, you study the basic veterinary sciences first before learning to apply that knowledge to veterinary practice as a clinical student. During your pre-clinical studies (Years 1-3), you are taught through lectures and practical classes (including 120 hours of dissection across the three years) in the central science departments, and College supervisions – you can typically expect 20-25 timetabled teaching hours each week. The clinical studies teaching is a mixture of lectures (in Years 4 and 5), practicals, tutorials, supervisions and clinical rotations.

In addition, you must complete a minimum of 12 weeks’ work experience (pre-clinical extramural study) during the University vacations in Years 1 and 2 to gain knowledge of animal husbandry. During your clinical studies, you must complete at least 26 weeks of clinical extramural study, some of which may be undertaken abroad.

Your progress is continually reviewed by your supervisors and your Director of Studies. Formal assessment, which determines your progression through the course, takes a variety of forms including written essays, short answer questions and practical examinations.

Years 1, 2 and 3 (pre-clinical studies)

Years 1 and 2
In Years 1 and 2, you are taught the core scientific knowledge and skills needed as a veterinary professional. Taught by some of the world’s top academic scientists and veterinary surgeons, we provide you with the scientific and practical basis that will allow you to develop your veterinary career to the full, whether your aim is to deliver outstanding care or to push forward the boundaries of academic veterinary medicine. In addition to core science, you follow the Preparing for the Veterinary Profession course (an introduction to the ethical, social and professional responsibilities of the profession) and courses in animal handling and management.

You can read more about Years 1 and 2 online at: www.vet.cam.ac.uk/undergrads. Year 3
You specialize in one of a wide range of other subjects offered by the University to qualify for the BA degree. Options include:
• a single Part II Natural Sciences subject (see p100-1)
• Part II Biological and Biomedical Sciences (see p100)
• a subject less obviously related to veterinary medicine, such as Anthropology or Management Studies

This is a feature distinctive to our course and one which offers significant advantages to our undergraduates. As well as considerable satisfaction and enjoyment, this extra year has been pivotal to many graduates’ career progression and all benefit from the global recognition of the Cambridge BA. You then continue to the three years of clinical studies at the Department of Veterinary Medicine, which is just a short walk or bike ride from the city centre.

Year 4 (clinical studies)
The emphasis of the clinical studies is to give you sufficient clinical knowledge and skills to begin to practise veterinary medicine (‘day one competencies’) and also to provide you with the scientific background you need to benefit from future trends and advances in veterinary medicine.

In Year 4, you study topics including:
• animal breeding, nutrition and welfare
• anatomical and clinical pathology
• microbiology and veterinary parasitology
• clinical pharmacology
• radiography
• anaesthesia
• gastroenterology
• respiratory system diseases
• communication skills
• practical clinical skills

You also learn about veterinary public health, including food hygiene, state veterinary medicine and the medicine of rabbits, rodents, reptiles and birds.

Clinical tuition begins with basic clinical methods and integrated teaching in the husbandry/management and medicine of horses and farm species. Two mornings each week are given over to practical clinical work including basic clinical examination of the main domestic species, radiography and post-mortem investigation. You also develop a range of technical and practice-related skills in the Clinical Skills Centre.

Year 5 (clinical studies)
You continue the different courses in species medicine started in Year 4, and instruction is given in subjects including:
• cardiology
• neurology
• oncology
• endocrinology
• various surgical topics
• communication skills
• practical clinical skills
• practice management

Five mornings every week are set aside for practical clinical work across various species and clinical disciplines. This includes visits to external establishments such as the RSPCA clinic, and opportunities to further hone your consultation and practical skills in the Clinical Skills Centre.

Year 6 (clinical studies)
This is a 40-week lecture-free year with tuition centred on clinical teaching, in which groups of just three or four students rotate through different disciplines in the hospital with individual clinicians. The small size of these groups means each student’s caseload is higher and they are given the maximum possible responsibility for the management of clinical cases. This allows you to develop your clinical and problem-solving skills and client communication skills in a real clinical practice environment. Finally, you have a period of eight weeks’ elective study in which to explore a special interest.

Achievement of the VetMB degree allows you to become a Member of the Royal College of Veterinary Surgeons (MRCVS), which is the professional qualification required to enter practice.

The course is great! I’ve really enjoyed learning all the science background, while the third year allows you to focus on something that really interests you.

Josie

www.vet.cam.ac.uk/study
Management Studies

Management Studies is offered as a Part II-only course. Students at any College can apply to transfer to Management Studies after two or three years of studying another subject at Cambridge.

A management environment
No undergraduate business degree by itself can teach someone how to be a competent manager that comes with experience and then further education. What Management Studies enables you to do is to study the subjects relevant to management and the environment in which the manager operates, whilst still a full-time student.
You develop a sound understanding of the fundamentals of management and various aspects of management practice, as well as gain practical experience in a real-life context. You acquire the skills that a good manager needs, including the ability to apply critical analysis to management issues and an awareness of the responsibilities of managers in an economic, social and environmental context.

A stimulating environment
The Judge Business School – one of the best in the world – is responsible for Management Studies, and provides library and computing facilities for both carrying out coursework and preparing papers and presentations.
However, amongst the most stimulating resources on the course are your fellow students: they come from different subject areas and have contrasting strengths, enabling you to learn from each other.

Teaching, topics and careers
Teaching involves lectures, supervisions and other active learning methods, such as a negotiations workshop.
The six main areas of a manager’s work make up the core subjects of the course:
• business and management economics
• human resources and organisations
• operations and information systems
• strategy and marketing
• finance and accounting
• management science
The value of our course is evident in the successful careers of our graduates. Since its introduction in 1986, Management Studies students have found little problem in finding the type of employment they seek in industry and commerce.
Recent graduates have gone on to careers in consultancy (or private equity and trade), marketing and communications, recruitment (in one case, starting their own consultancy), IT and information systems, and the finance sector (including an investment analyst and a risk analyst).

Manufacturing Engineering

Manufacturing Engineering is offered as a Part II-only course. Students at any College can apply to transfer to Manufacturing Engineering after completing Part I of Chemical Engineering or Engineering.

Engineers and entrepreneurs
Successful, wealth-creating industries are increasingly managed by engineers with an appropriately broad education and training. Manufacturing engineers naturally have particular expertise in the design and operation of manufacturing facilities, but increasingly their role is as leaders of multidisciplinary teams.
Manufacturing Engineering gives you a thorough grounding in manufacturing technology and management, together with an understanding of the full range of activities involved from market analysis through product design and production, to sales and distribution, all set firmly within a financial and business context.
As well as the engineering and business sides, you also acquire a sound understanding of the human aspects of industry and develop leadership and people skills.

Careers
Our graduates are much sought after for demanding jobs, not only in manufacturing but also in other branches of engineering, consultancy and commerce, and indeed a diverse range of other fields. They’re equally well-placed to start their own companies, having gained a comprehensive understanding of how business works and having acquired contacts within a large number of national and international companies.

Fact file

Manufacturing Engineering

Fact file

Duration
Two years
Entry requirements
Competitive entry after successful completion of Chemical Engineering Part I (see p53) or Engineering Part I (see p55)
Applications from other science students may be considered

Places available
40
Location
Map reference W (see p154-5)

www.ifm.eng.cam.ac.uk/met

01223 338078
enquiries@eng.cam.ac.uk