Courses

One of the most distinctive characteristics of our courses (also called Triposes at Cambridge) is that they cover the subject area very broadly in the initial years and then offer a wide range of options in which to specialise in later years.

If you know what you want to focus on you can start to specialise early on or, if you’re undecided, you can delay specialising until you’ve had the chance to fully explore the breadth of your subject and develop your interests. Either way, by graduation you’ll have the same depth of understanding and specialist knowledge as other graduates in the field.

Generally, the number of subjects to choose from increases each year. In addition, some papers (topics) are offered in numerous courses (see course outlines). For example, some Classics and language papers are available in the English course. Beyond any compulsory papers you can usually select your topics from a variety of options.

If the subject you’re looking for doesn’t appear in any of our course titles check the Index (p156-8), where all of our subjects – and the course(s) they’re offered in – are listed.

Course requirements

Essential subject requirements are given in each course entry (p44-113) and are defined as follows:

- all Colleges require – subjects that are essential for all Colleges
- some Colleges require – subjects that are essential for some Colleges
- useful preparation – subjects that aren’t required by any Colleges (so won’t affect admissions decisions) but which can provide useful preparation for the course

The Colleges expect required subjects to be passed, normally with an A* at A Level/grade 7 or 6 at Higher Level of the IB (or equivalent). For courses that don’t have particular subject requirements, high grades are expected in your subjects most relevant to the course.

See p146-8 for further guidance on entry requirements. General information about what our Admissions Tutors look for in applicants can be found on p8.

All undergraduate admissions decisions are the responsibility of the Cambridge Colleges, so please check College-specific requirements with the College(s) you’re considering applying to.

Admission assessments

Most applicants are required to take a subject-specific written admission assessment. The type of admission assessment required for each course (pre-interview or at-interview) is noted in the course fact file.

In addition to these assessments, some Colleges require applicants for some courses to take a College set assessment at interview (this may be in addition to a pre-interview assessment). See individual College websites for details.

Apart from assessments for Medicine (see p90) and Veterinary Medicine (see p109), applicants to mature Colleges aren’t required to take any pre-interview assessments. See p57 for more information.

For more details about admission assessments see p8 and visit www.cam.ac.uk/assessment.

Part-time and short courses

The University only offers full-time undergraduate degree courses. However, our Institute of Continuing Education (ICE) offers adults of all ages access to more than 250 part-time qualifications and short courses for academic progression. See the ICE website for details at www.ice.cam.ac.uk.
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.

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
From the history and culture of Anglo-Saxon England, and Celtic languages to 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 Cúalnge (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.

‘Asnc’ (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 further research in universities and schools, 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.

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

Course outline
Teaching is provided through lectures, classes, seminars and supervisions and you can expect between 10 to 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 10, 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
• palaeography (the study of manuscripts 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.

Year 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 and imaginative ways.

You study four subjects selected from a range of 17 papers including, for example:
• The Conversion of Scandinavia
• Beowulf
• 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 III 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, and a subject from the Faculty of History. You may also replace one of your Part I 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.
Are you curious about humanity's deep past? Human evolution and biology, ancient cultures and languages, early civilisations and how heritage affects identity and politics today are just some of the topics you can study on our Archaeology course.

Archaeology at Cambridge

Students at the Department of Archaeology are part of a diverse research community. Our course encompasses Archaeology, Assyriology, Biological Anthropology and Egyptology. 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, from molecules to monumental structures, to explore the human past and understand past societies.
- Assyriology is the study of the languages, cultures, history and archaeology of ancient Mesopotamia (Sumer, Babylonia and Assyria).
- Biological Anthropology investigates human evolution and diversity, biology and behaviour, and the interaction between biology and culture.
- Egyptology is the study of the history, languages, society, archaeology and religion of ancient Egypt.

Teaching and resources

Our Archaeology degree is one of the most dynamic of its kind. Our staff are at the forefront of research, involving students through fieldwork and research projects. Our excellent resources include the Cambridge Archaeological Unit (a dedicated professional field unit), a well-equipped IT suite, purpose-built laboratories and dedicated libraries. In addition, the Duckworth Collection of human and primate skeletal remains and fossil hominin casts, the Museum of Archaeology and Anthropology and the Fitzwilliam Museum provide access to 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. The intellectual versatility and transferable skills that our students develop – such as the ability to think critically, analyse texts, handle data and work collaboratively – mean they’re widely sought after by employers in many related and unrelated fields. Graduates have gone on to work in the commercial archaeology sector as well as museums, commerce, law, advertising, media, conservation, health and further academic study among others.

The course gave me a broad, scientific base with which to continue my studies of the human past. The ability to study the anatomy of the past and present undoubtedly provided the most challenging and interesting parts of my degree, giving me transferable skills which I can carry into my future career.

Helen

Course outline

You have between six and eight lectures and one or two supervisions each week. You may also have language classes, seminars and/or practicals.

You’re assessed each year through written exams and coursework. Some papers include assessed practicals/fieldwork. You will also write a 10,000 word dissertation in Year 3.

Year 1 (Part I)

You pick three from seven core archaeology, language and biological anthropology options. Your fourth can be another core subject paper, or you can choose a psychology, social anthropology, politics and international relations or sociology option.

Years 2 and 3 (Part II)

You can pursue one of four single-subject tracks as detailed below. The tracks can also be combined allowing you to study Archaeology and Biological Anthropology or Assyriology and Egyptology.

Archaeology

Year 2 (Part II A)

You take three papers in theory and practice, data analysis, and the archaeology of a particular period or region. The fourth paper is either another period/region option, a biological anthropology paper or a paper chosen from another course such as Classics or Human, Social and Political Sciences (HSPS).

Year 3 (Part III B)

You complete four weeks of fieldwork before starting Year 3. You write a dissertation and study advanced archaeological thought, archaeology in the wider world, plus additional options from within this track or from another course such as Classics or HSPS.

Assyriology

Year 2 (Part II A)

You take four papers: Mesopotamian archaeology, Babylonian language, Mesopotamian culture and one from other course options (one can be from Classics or HSPS).

Year 3 (Part III B)

You undertake a four-week study tour and/or fieldwork before starting Year 3. You take further papers in Babylonian and Assyrian language, Mesopotamian archaeology, Mesopotamian culture, or Sumerian language. The fourth paper can be your dissertation, another period/region option, a biological anthropology paper, or one from another course such as Classics or HSPS.

Egyptology

Year 2 (Part II A)

You take papers in Egyptian language and archaeological methods and concepts, plus two papers on society, religion and death in Ancient Egypt.

Year 3 (Part III B)

You undertake a four-week study tour and/or fieldwork before starting Year 3. You take three papers: one Egyptian language paper, one Egyptian archaeology paper and a third on either Egyptian language or Egyptian archaeology. You will also write a dissertation.

Biological Anthropology

Year 2 (Part II A)

You take a paper on data analysis and interpretation, plus two papers from Human ecology and behaviour, human evolution, and comparative human biology. You select your fourth paper from options offered elsewhere in this course, or from another course such as Psychological and Behavioural Sciences (PBS) or HSPS.

Year 3 (Part III B)

You take a paper on major topics in human evolutionary studies and write a dissertation. You also take further papers chosen from a range of areas including biological anthropology, archaeology and PBS.

Fact file

Duration

Three years – BA (Hons)

2019 entry

Applications per place: 3
Number accepted: 22

Typical offers require

A Level A*A 40-42 points, with 776 at Higher Level

Other qualifications See p147-8
No specific subjects required by any Colleges

Useful preparation

Classics, Geography, History, a language (ancient or modern), science subjects, social science subjects

Admission assessment

At-interview written assessment (see p3) and www.cam.ac.uk/assessment

Colleges

Available at all Colleges except Queens’

Location

Map reference D (see p154-5)

Open days 2020

7 March (Studying Ancient Egypt and Mesopotamia at University Conference, London), 10 April (Biological Anthropology Study Day) – booking required, see the Department website

College open days (art)

Cambridge Open Days – 2 July, 3 July (see p150)

Related courses

Asian and Middle Eastern Studies
Classics
Geography
History
Human, Social, and Political Sciences
Natural Sciences

16
56
70
72
78
99
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, reprographics areas, workshops, studios and spaces for larger installations.

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 a ARB/RIBA Part 3 course (the final qualifying stage). When you have completed all three parts of the ARB/RIBA requirements, you will be able to register as an architect with the ARB.

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.

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

Course outline

You’re taught in our studio – where you have your own dedicated design space – two days a week, during which you’ll 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/ restoration 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 I)

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 I and in the ongoing Part IB lectures with your studio output. A voluntary study trip is usually offered.

In addition, you take five papers that build on your Part IA knowledge:

• Principles of Construction
• Principles of Structural Design
• Principles of Environmental Design
• Studies in History and Theories of Architecture, Urbanism and Design (essays)
• Studies in History and Theories of Architecture, Urbanism and Design (examination)

For the first, you submit two essays, and for the second you 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.

Fact file

Duration
Three years – BA (Hons)

2019 entry
Applications per place: 9
Number accepted: 53

Typical offers require
A Level/IB

A Level/IB 40–42 points, with 77% at Higher Level

Other qualifications
See p147–8

Applicants are expected to show a portfolio of recent work at interview (see opposite)

No specific subjects required by all Colleges

Some Colleges require
A5 or A Level/B Higher Level Mathematics or Physics; A Level/B Higher Level in an essay-based subject

Admission assessment
All interview written and practical assessments (see p43 and www.cam.ac.uk/assessment)

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

Location
Map reference 1 (see p154–5)

Open days 2020
College open days (arts) Cambridge Open Days – 2 July, 3 July (see p150)

Related courses
Engineering 65
History of Art 76
Land Economy 80
Asian and Middle Eastern Studies

You don’t need prior knowledge of the languages or cultures of East Asia or the Middle East to study them at Cambridge but you do need imagination, perseverance, curiosity and a sense of adventure.

Broaden your horizons
Our course explores contemporary global cultures through the in-depth study of language, culture and history, giving you knowledge and practical skills that can be used in many careers. The areas you can study in the Asian and Middle Eastern Studies (AMES) course stretch from Japan in the East to Morocco in the West, and from classical times to the present day.

Discover global cultures
AMES is flexible and numerous options and combinations are available. You do not have to have studied Asian or Middle Eastern subjects at school, so the best preparation is for you to explore yourself what interests you about the language and culture you choose to study.

- 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.

- Japanese While rooted in a vibrant cultural history, Japan is one of the world’s most dynamic societies, a leader in industry, technology and popular culture. On our course you gain unrivalled mastery of Japanese while developing in-depth understanding of Japan’s history, literature, society and politics.

- Arabic is the native language of around 200 million people in the Middle East and North Africa. It is the sacred language of Islam and a language of medieval high culture, whose scientific and philosophical works helped kick-start the Renaissance. Our course gives you access to this heritage and to the modern societies and cultures nurtured by it.

- Hebrew is the language of the Old Testament, medieval Jewish culture and the modern state of Israel. Our course 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.

- Persian is the language of modern Iran and variants of it are also spoken in Tajikistan and Afghanistan. It was one of the major languages of the pre-modern Islamic world and has a world famous poetic and literary tradition and a vibrant contemporary culture which our course will introduce you to.

Flexibility: our range of options
Chinese and Japanese are only offered as single subjects and cannot be combined with another language. However, those studying Japanese will have the option to take Korean in Year 4.
Arabic, Hebrew and Persian can be combined with each other or with a modern European language which you have studied to A Level/IB Higher Level or equivalent. Arabic and Hebrew can also be taken as single subjects. Persian must be combined with another Middle Eastern or European language in Years 1 and 2.
Students taking one of the Middle Eastern languages will have the option to study Hindi from Year 2 or Sanskrit in Year 4.

You should indicate which language(s) you’re interested in studying in your SAQ (see p7).
Asian and Middle Eastern Studies (cont.)

Our teaching
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 at an advanced level enabling you to speak fluently and read confidently by the end of Year 4. Alongside the language(s), there’s a wide range of topics on offer including history, literature, religion, anthropology, linguistics and cinema (depending on your chosen subject area).

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. Chinese and Japanese students study at a Faculty-approved university in the appropriate country. Arabic, Persian and Hebrew students have some choice of which country they go to and what他们 do. Students generally take an Faculty-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 and many use their subject directly in subsequent employment. Even if you choose not to stay in a related field, employers are often impressed by your choice to study a difficult language. Career choices include the media, business and commerce, tourism, teaching overseas, the Civil Service (especially the Foreign Office) or NGOs. Our graduates have also gone into banking, marketing and law.

Being introduced to so many ways of thinking about history and culture taught me not only to look beyond popular stereotypes of the Middle East but also to examine how and why they were constructed. I gained a more complex understanding of the richness and dynamism of the region, in both its past and present. - Jeson

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

Course outline
Teaching is made up of lectures, seminars, language classes and supervisions – you can generally expect 12-14 hours of teaching each week.

You are assessed at the end of each year through written and oral examinations, and/or coursework. Depending on your choice of language(s), you take four to six papers in Years 1, 2 and 4, including 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 Middle Eastern with a European language, you study both roughly equally in Year 1 but after that you can balance them as you wish. If you combine both to Year 4, you spend Year 3 in the Middle East.

Years 1 and 2 (Part I)
In Year 1 (Part IA), you study your chosen language(s) intensively, in both written and spoken forms. You take introductory papers on East Asia or the Middle East, depending on the language(s) you’re studying.

In Year 2 (Part IB), you continue to study your chosen language(s). There are literature and history papers (compulsory for those taking Chinese or Japanese) and you also choose from a number of optional papers, some borrowed from other courses. The topics offered vary from year-to-year but currently include:

- Chinese – dynastic and modern China; Chinese thought; Chinese literature; classical Chinese; popular China, globalisation in China; cinema, linguistics
- Japanese – Classical Japanese, Japanese history, Japanese literature; Japanese society; Japanese politics since 1945; cinema, linguistics
- Arabic, Hebrew, and Persian – classical Arabic, Persian, and/or modern literature (Arabic, Hebrew, Persian), classical Islamic civilization, formation of the modern Middle East, the anthropology of Islam, Hebrew culture, Hindi, cinema, linguistics, Islam, Judaism

Years 3 and 4 (Part II)
In Year 3, you spend at least eight months abroad developing your language skills and your understanding of the culture you’re studying.

In Year 4, you write a dissertation and take four further papers, including at least one advanced language paper. You choose your other papers from a list of specialist options, some borrowed from other courses. The topics offered vary from year-to-year but currently include:

- Chinese – early and Imperial China, China during the second world war, modern Chinese literature, contemporary Chinese society, Chinese linguistics, China in the International Order
- Arabic, Hebrew, and Persian – classical and/or modern literature (Arabic, Hebrew and Persian), the Qajar, imperialism and Islamic law, pre-modern Islamic cities, the invention of Israeli culture, Semitic linguistics, Sanskrit, Hindi, Islam, Judaism
- Other topics include: Islamic law, pre-modern Islamic cities, the invention of Israeli culture, Semitic linguistics, Sanskrit, Hindi, Islam, Judaism
Chemical Engineering 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.

Qualifications and accreditation
It is 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 45 per cent of our graduates go into the chemical, process and food industries; 20 per cent go outside the discipline because of their broad range of skills. Some go into academia whilst giving you the opportunity to work in a team on an open-ended problem. 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.

You undertake a project on chemical product design and take a compulsory paper on environmental aspects of chemical engineering.

Chemical Engineering at Cambridge
Our course concentrates on the scientific principles that underpin chemical and biochemical engineering. These principles are needed to develop processes and products that address some of the problems currently facing humanity. These include the energy transition away from fossil fuels, the need for sustainable food and water supplies as climate change occurs, and the provision of improved healthcare.

The aim is to produce graduates who 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.

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.

Superb Department – there’s an overwhelming feeling of friendliness, huge links with industry, great research, and the course structure is excellent. You can’t go wrong.
Carl

Course outline
You are 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. You also undertake fortnightly projects. Assessment is by written examinations 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 are 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 IIA)
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, mathematics

After the written exams in the third term, you undertake a group project that requires 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 IIIB)
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.

Related courses
Engineering 65
Natural Sciences 95
Classics

Classics at Cambridge isn’t just studied as a period in the past, it also looks at how classical culture, language and philosophy have affected the history of Western civilisation right up to the present day.

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.

The courses
We offer a three-year course and a four-year course. The three-year course is usually for students with A Level/IB Higher Level Latin or equivalent (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 (or equivalent) Classical Greek but not Latin, you may be advised to take the four-year degree (depending on circumstances – please contact the Faculty’s College admissions office for guidance).

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.

Careers
Studying Classics will help you develop transferrable skills that are essential for many careers after graduation. Our students are 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, the media, accountancy, the Civil Service, industry and business. Our graduates include bankers, barristers, solicitors, actors, musicians and theatrical artistic directors.

The four-year degree has such a warm and encouraging approach, you really feel like part of a high level academic intensive course, and a tight knit family of similar people. I was interested in Classics when I arrived, but the four-year course made me love Classics.

Nathan

Course outline
During Part I, you have an average of eight to 10 lectures a week, and language classes as needed. You also have at least two supervisions a week in which you discuss your work.

In Part II, you may have Faculty seminars as well as lectures, while your College supervisions give you the opportunity to research essay topics of your choice in depth.

Assessment is by end of year exams, although in Year 3 you can substitute an exam for a dissertation.

Preliminary Year (four-year course)
You learn to read Latin confidently through language study and the reading of texts from the Roman world. You also study Roman culture, submit essays for assessment, and undertake some preparatory work for taking up Ancient Greek at the beginning of the next year.

Year 1 (Part IA)
You take two papers, each taking about 3500 words.

Year 2 (Part IB)
You take six papers, including a paper from each of the following four compulsory groups:

- Greek translation
- Latin translation
- The remaining two papers are chosen from four on other subjects: history, art and archaeology, philosophy and philology

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

Year 3 (Part II)
You can specialise within one discipline (eg archaeology) or construct a wide-ranging course particular to your individual strengths and interests. You choose four papers from a broad range of options, including:

- literature, eg Women and Greek Literature
- philosophy, eg Aristotle’s World, from Turtles to Tragedies
- history, eg Roman Religion
- identity and empire

At the end of the year, you take exams in these subjects or you can substitute one paper with a dissertation on a subject of your choice within the field of Classics. Past dissertations have covered:

- cross-dressing in antiquity
- the phenomenon of Asterix
- classical influences on contemporary American poetry
- Homer and Virgil
- Greek tragedy and politics
- comparative linguistics
- the nature and role of pleasure in human life
- the art and archaeology of Roman Egypt
- philosophy

Related courses
Archaeology 46
English 68
History 72
History of Art 76
Linguistics 84
Philosophy 102

Duration
Three or four years – BA (Hons)

2019 entry
Applications per place: 2
Number accepted: 87

Typical offers require
A Level A** (IB Higher Level Latin (A Level/IB Higher Level Classical Greek is accepted as a substitute at some Colleges)

ONE-YEAR COURSE

No specific subjects required by any Colleges.

Useful preparation Classical (see p47-8

Civilisation, English (Language or Literature), History, a language (ancient or modern)

Admission assessment
Interview with the Faculty (see p43 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference S (see p154-5)

Open days 2020
20 March (Oxford and Cambridge Sixth Form Conference in Cambridge) - booking required; see the College website
College open days (arts) Cambridge Open Days – 2 July, 3 July (see p158)
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.

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.

In Years 1 and 2, assessment is currently by three-hour examinations taken in the final term of each year. In Year 3, students are assessed by coursework and three-hour examinations. Practical work is undertaken and assessed in all years of the degree programme.

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 three compulsory Computer Science papers – covering topics such as foundations of computer science (taught in OCaml), Java and object-oriented programming, operating systems, and digital electronics, graphics, interaction design – and the Mathematics paper from Part IA of Natural Sciences (www.natsci.tripos.cam.ac.uk).

Year 2 (Part IB)
You take four papers, spanning core topics:
• theory – including logic and proof, computation theory
• systems – including computer design, computer networking

You also undertake a group project which reflects current industrial practice.

Year 3 (Part II)
You choose from a large selection of topics which allows you to concentrate on an area of interest to you, such as computer architecture, applications (including bioinformatics and natural language processing) or theory. New topics inspired by current research interests include computer music, data science and robotics.

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 academic or industrial research. You explore issues at the very forefront of computer science and undertake a substantial research project. Progression to Part III is dependent on Part II examination achievement. Successful completion of Part III leads to the MEng qualification, as well as the BA degree attained at the end of Part II.

Careers
Our graduates’ knowledge and skills embody principles which will outlast today’s technology, making them highly sought after by industry and commerce alike. 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 companies or gained employment in software, hardware, the games industry, finance, telecommunications and commerce.

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

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!

Chloe

Facilities and work experience
Our students benefit from the Department’s cutting-edge research and extensive facilities. The purpose-built Department of Computer Science and Technology 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 can lead to commercialisation, licensing or employment.

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’). A number of local firms and start-ups 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 OCaml, Java, C/C++, Prolog) and hardware systems (eg chip design using Verilog).

Related courses
Engineering 65
Linguistics 84
Management Studies 112
Natural Sciences 99

Fact file
Duration
Three years – BA (Hons)
Four years – MEng

2019 entry
Applications per place: 11
Number accepted: 116

Typical offers require
A Level A*A*A
IB 40-42 points, with 776 at Higher Level

Other qualifications See p47-8
No prior knowledge of programming required

All Colleges require
A Level/IB Higher Level Mathematics

Some Colleges require
A Level Further Mathematics; IB Higher Level Physics

Admission assessment
Pre-interview written assessment (see p43 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference W (see p154-5)

Open days 2020
College open days (sciences) Cambridge Open Days – 2 July, 3 July (see p150)
Economics

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.

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.

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.

Ari

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 markets, 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
- Labour

Through these papers you acquire a knowledge and understanding of a range of key topics and analytical techniques in microeconomic and macroeconomic theory, develop knowledge of key econometric techniques, and learn the IT skills needed to undertake a project in applied econometrics.

Year 3 (Part IIB)

The final year consists of two compulsory papers:

- Microeconomic Principles and Problems
- Macroeconomic Principles and Problems

In addition, you take two optional papers and write a compulsory dissertation of 7500 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:

- Economics Theory and Analysis
- Political Economics
- Banking and Finance
- Public Economics
- The Economics of Developing Countries
- Industry
- Theory and Practice of Econometrics II
- World Depression in the Interwar Years
- Social Problems in Modern Britain
- Global Capitalism
- Politics of Europe

Fact file

Duration
Three years – BA (Hons)

2019 entry
Applications per place: 7
Number accepted: 156

Typical offers require
A Level A*A*, IB 40–42 points, with 776 at Higher Level

Other qualifications See pt4-8

All Colleges require A Level/IB Higher Level Mathematics

Admission assessment
Pre-interview written assessment (see p64 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges except Newnham and Wolfson

Location
Map reference S (see p154-5)

Open days 2020
College open days (tba) Cambridge Open Days – 2, July, 3 July (see p158)

Related courses
Geography 70
History 72
Land Economy 80
Management Studies 112
Mathematics 86
Education is a rewarding interdisciplinary degree that allows you to combine the study of educational and social issues with one of three specialist areas: psychology of learning, international development or English, drama and the arts.

Education at Cambridge

Education is one of our most powerful means for change and growth in the modern world. On our course, you follow one of three tracks, studying Education alongside your chosen field of interest, which will include the opportunity to study in other Faculties relevant to your chosen track.

• 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. This track is accredited by the British Psychological Society (BPS). This means that students who successfully graduate (with at least second class honours) achieve the Graduate Basis for Registration to pursue further study in psychology.

• The Education, Policy and International Development track considers how educational institutions and the implications for communities, societies and power relations. It requires a reimagining of education for the 21st Century in light of increased inequality, life-long learning, digitalisation, globalisation and climate change.

• The Education, English, Drama and the Arts track focuses on the role of education in society, and the arts in education, policy and international development, and psychology and learning.

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 initial teacher training in primary education or, for those on the Education, English, Drama and the Arts track, in secondary education.

After Cambridge

The career options for graduates are extremely varied and include 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.

Education as a course and as a concept goes far beyond ‘school’; it is a lens through which we can consider the whole of society.

Bali

Course outline

In your SAQ (see p7) you should indicate which track you’re interested in studying.

You attend approximately four to six lectures and seminars, and one or two hours of supervision per week.

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 which have a strong interdisciplinary emphasis, introducing major themes in education:

• Critical Debates in Education – discussing core questions of education and key transformations that require a remapping of education for the 21st Century in light of increased inequality, life-long learning, digitalisation, globalisation and climate change

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

- Education, Psychology and Learning – exploring the social, psychological and material context within which communication, spoken language and literacy are developed in childhood.

- Education, English, Drama and the Arts – Poetics, Aesthetics and Criticism, and a further track-specific paper (topics may include: practical and historical understandings of theatre, studies of language and culture, approaches to human scholarship).

Year 2 (Part IB)

In Year 2, you take five papers. Two are compulsory – Designing Educational Research (combining problem-based learning with hands-on activities to introduce key research methods), and The Emergence of Educational Thinking and Systems (both exploring the dynamics that shape educational institutions and the implications for communities, societies and power relations) – and you choose your third from several other education topics.

Your other two papers are track-dependent:

- Education, Psychology and Learning – a paper providing you with the foundations of psychological study, and a further psychological paper.

- Education, Policy and International Development – International Issues in Inclusion and Diversity in Education, and a paper from a list of options (topics may include: international literatures, globalisation, modern societies).

- Education, English, Drama and the Arts – two papers chosen from a range of options, including some papers offered by the Faculty of English (topics may include: global creativity, creating for an audience).

Year 3 (Part II)

In Year 3 you take five papers: a compulsory dissertation of 8,000-10,000 words and two papers on particular issues in education (examples which may be offered include: Social Theory and Education, Children’s Literature or Play, Creativities and Imagination). In addition, you will take two further papers. At least one of these will be specific to your track. Topics for these papers may include: childhood, literature and reading, intersection of theatre and society, critical debates and approaches in education, policy and international development, and psychology and learning.

Fact file

Duration

Three years – BA (Hons)

2019 entry

Applications per place: 4

Number accepted: 42

Typical offers require

A Level

IB 40–42 points, with 7/6 at Higher Level

Other qualifications

See p147-8

No specific subjects required by all Colleges

Some Colleges require applicants to take a written assessment at interview (see p48 and www.cam.ac.uk/assessment)

Colleges

Available at all Colleges except Corpus Christi, Girton, King’s, Murray Edwards, Newnham, 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 p14-5)

Open days 2020

College open days (arts) Cambridge Open Days – 2 July, 3 July (see p150)

Related courses

English

68

Geography

70

History

72

Human, Social, and Political Sciences

78

Psychological and Behavioural Sciences

104
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 as one of the highest achieving 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 (IMechE), Engineering and Technology (IET), Civil Engineers (ICE), and Structural Engineers (IstructE), the Institute of Measurement and Control (InstMC), the Institute of Highway Engineers (IHE), the Chartered Institution of Highways and Transportation (CIHT), the Institute of Physics and Engineering in Medicine (IPEM), and the Royal Aeronautical Society (Raes). 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

Continued overleaf
Engineering (cont.)

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 Graduate Engineer, Atkins; Graduate RF Systems Engineer, Airbus Defence and Space; Consultant, TTP plc; Analyst, Goldman Sachs; Real-Time Control and Software Engineer, UK Atomic Energy Authority; Business Analyst, McKinsey & Company; and Manufacturing Engineer, Rolls-Royce plc.

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

Liz

Entry requirements for Engineering

All Colleges require A Level/IB Higher Level Mathematics and Physics.

Some Colleges require A Level/IB Higher Level in a third science/mathematics subject, STEP (see p148).

A Level Further Mathematics is very strongly encouraged. If unavailable or you’ve recognised its desirability too late, we’d advise you to do as much additional pure maths and mechanics as possible, eg by studying advanced material on Further Mathematics AS Level.

All Colleges, except Trinity, welcome applications from students taking A Level Mathematics and a suitable vocational qualification, eg a BTEC Higher National Diploma in an engineering discipline. Applicants are expected to achieve the highest possible grades in A Level Mathematics and the vocational qualification. Those taking the Single Award Applied A Level in Engineering or the Principal Learning components of the Advanced Diploma in Engineering must also be taking A Levels in Mathematics and Physics.

All Colleges welcome applications from students wishing to defer entry in order to pursue an Engineering related gap year. Some Colleges are particularly keen to support such applicants, please see the Department website for details.

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, with less than four per cent of our students who graduated in 2017 reporting that they are still seeking employment or further study after six months.

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

Liz

Course outline

Teaching is provided through a mixture of lectures, practicals, projects and supervisions, and in Year 1 you can typically expect around 22 hours of teaching each week. You’re assessed each year through coursework and written exams.

A few students graduate after three years with the BA (Honours) degree. However, most continue to the fourth year (Part IIIB), successful completion of which leads to the BA and MEng degrees. Progression to Part IIIB is dependent on achievement in Parts II and IIA.

Year 1 (Part IA)

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.

In Year 1, you take four papers and sit a three-hour written exam in each:

- Mechanical Engineering
- Structures and Materials
- Electrical and Information Engineering
- Mathematical Methods

You also undertake several coursework activities and projects on topics including structural design, product design, presentation skills, drawing, laboratory experiments and computer programming.

Year 2 (Part IB)

You study eight papers on core subjects at a more advanced level:

- Mechanics
- Structures
- Electrical Engineering
- Information Engineering

In the third term, you select two topics from seven engineering disciplines, or one engineering topic plus a language option. These topics are application-focused, emphasising 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.

Year 3 (Part II)

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:

- Aerospace and Aerothermal Engineering
- Boilering Engineering
- Civil, Structural and Environmental Engineering
- Electrical and Electronic Engineering

Alternatively, you can choose (General) Engineering, in which there are fewer restrictions on paper combinations.

In addition, you take an Extension Activity (selected from several topics, including both non-technical options, such as a language course, and technical options designed to introduce you to various measurement and test procedures in your chosen professional area) and, in the final term, choose two from a variety of design and computer-based projects or projects in a foreign language.

Year 4 (Part IIIB)

In Part IIIB, 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.

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.

Fact file

Duration
Four years – MEng

2019 entry
Applications per place: 7
Number accepted: 310

Typical offers require
A Level A*/A/A*
IB 40-42 points, with 776 at Higher Level

Other qualifications See p147-8
See box opposite for subject requirements

Admission assessment
Pre-interview written assessment (see p43) and www.cam.ac.uk/assessment

Colleges
Available at all Colleges

Location
Map reference E (see p154-5)

Open days 2020
College open days (sciences) Cambridge Open Days – 2 July, 3 July (see p150)

Related courses
Architecture 48
Chemical Engineering 54
Computer Science 58
Manufacturing Engineering 113
Natural Sciences 99

www.eng.cam.ac.uk  ugrad-admissions@eng.cam.ac.uk  01223 332625
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 in 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 literary works written in English with the chance to explore other art forms in relation to literature, 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 as well as 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 or become poets, novelists and playwrights.

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

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**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 is 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.

**Year 1 (Part IA)**
You take two compulsory papers:
- Practical Criticism and Critical Practice
- Shakespeare (assessed by a portfolio of essays submitted in Easter Term)

You also start work on two of the period papers, which will be examined in Part IB.

**Year 2 (Part IB)**
You take one compulsory paper (English Literature and its Contexts 1660-1870) and a further three papers from the following list:
- Early Medieval Literature and its Contexts 560-1100
- English Literature and its Contexts 1100-1660
- English Literature and its Contexts 1300-1550

One of these papers (with the exception of Early Medieval Literature and its Contexts 1066-1350) can be replaced by a dissertation.

**Year 3 (Part II)**
You take two compulsory papers:
- Practical Criticism and Critical Practice II
- 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 optional paper, or choose two optional papers.

The optional papers change regularly – the following are available in 2019-20:
- Chaucer
- Medieval English Literature 1500-1660
- The Medieval Supernatural
- Material Renaissance
- Lyric
- Prose Forms 1485-1660
- The Ethical Imagination
- American Literature
- Tragedy, which ranges from ancient Greek drama to contemporary writing
- Postcolonial and Related Literatures
- History and Theory of Literary Criticism
- Visual Culture
- Contemporary Writing in English
- Early Modern Drama 1588-1642
- Special Period of English Literature 1647-1722
- Love, Gender, Sexuality 1780-1824

Subject to certain restrictions, it is 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.
Geography

Globalisation, environmental politics, urbanisation, conservation, climate change, glaciation, volcanology, Quaternary science, 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 interdependencies 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 residential field class in Year 2 leads to a piece of assessed practical work. Recent locations include Switzerland, Iceland, Germany, Denmark, Morocco and Spain. Trips last between five and eight days and take place either in September, just before the start of your second year. Dissertation subjects and locations vary widely: some students travel abroad, others stay in the British Isles.

Careers
While Geography isn’t directly a ‘vocational’ degree, Cambridge Geography graduates are trained to deal with multivariable problems, are skilled in information retrieval, data management and computing, and are used to working on their own initiative: as such they are highly employable in a variety of professions.

Your Part II dissertation requires your own research, with development of ideas supported by the Department, and data collection is 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.

Course outline
You typically have six to eight lectures each week (with associated reading), as well as practicals, laboratory work and field classes. In addition, you normally have three supervisions a fortnight at which you discuss a topic, usually based on reading, essay writing, preparation of presentations or answering data response questions.

Year 1 (Part IA)
You are introduced to key themes and issues by studying two core papers:

- Human Geography – topics are varied, but may include globalisation; cultural geography; sustainable development; historical geography; urbanisation; geopolitics; uneven economies
- Physical Geography – topics are varied, but may include tectonics and volcanism; coastal processes; glacial processes; Quaternary climate change; biogeography; atmosphere and climate

You are assessed by one written examination for each paper.

You also submit Geographical Skills and Methods projects that cover numerical methods; survey techniques; 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. 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
- Development Theories, Policies and Practices
- Citizenship, Cities and Civil Society
- Building on Part IA Skills and Methods, you also undertake project work involving field, lab and computer skills and techniques.

You participate in a residential field class five to eight days that contributes to your final Year dissertation research by inspiring your choice of topic and developing specific field research skills.

Assessment in the second year is based on a mix of written examinations for the four papers, and submission of a portfolio of coursework, some related to the papers and others based on your dissertation proposal, fieldtrip report and an exercise from statistics/spatial data analysis.

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 one written examination or by a combination of written examination and coursework, which typically takes the form of an extended essay or laboratory report or poster presentation. Papers on offer vary each year but recent examples include:

- The Geographies of Global Urbanism
- Political Ecology in the Global South
- Biogeography: Biological Processes and Environmental Change
- Glaciology
- Geographies of Postcolonialism and Decolonality
- Geographies of the Arctic
- Environmental Knowledge and the Politics of Expertise
- Volcanology
- Legal Geographies
- Demographic Continuity and Change
- From Earth Observations to the Climate System
- Seascapes: Temperate and Tropical Bioclimatic Systems

You also submit a dissertation of 10,000 words on a topic of your choice. Planning for this starts in the second year. Data is usually collected in the summer between your second and third years, with analysis during the third year.

Joe
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. It allows you to combine breadth – exploring many different aspects and periods of history – with depth – focusing in on the topics that particularly interest you.

Across centuries and continents
History at Cambridge reflects the quality and breadth of interests of our expert historians and our course has been ranked among the top three of the world’s best for several years. The History degree gives you the opportunity to explore the past from many different angles, as well as the interaction between history and other disciplines, including politics, anthropology, sociology, economics and archaeology.

There is ample scope to pursue personal interests and experiment with different historical approaches. Specialist papers allow you to work with source materials as varied as Hollywood movies, Middle Eastern newspapers or medieval plague records. Our academics are active researchers, who publish books and scholarly articles as well as writing and speaking regularly for the wider public and media.

Studying History in Cambridge
Cambridge is an ideal place to study History. There are many libraries, offering a wealth of rare books and manuscripts to students as they embark on their own research projects. The city’s museums offer access to an even wider range of sources, unlocking the study of art, material culture, and the history of science.

All undergraduate historians are encouraged to study foreign languages, and specialist support is available in the University Language Centre (see p15).

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 secured rewarding jobs across sectors ranging from journalism and broadcasting to teaching and research, finance, consultancy, law and public administration.

The Cambridge course is really broad, both in terms of chronology and geography, so I thought it would give me the opportunity to study lots of different types of history.

Roman

Course outline
Teaching includes Faculty lectures and seminar classes and College supervision. On average, you attend eight to 10 lectures and classes each week. A wide choice of papers is on offer each year, only constrained by a few constraints: for example, class sizes are limited on some papers.

You will have regular supervisions, for which you typically write an essay giving you the opportunity to debate and develop your ideas with an expert in the field. Papers are typically assessed by examination and coursework including essays and book reviews. There is also an optional dissertation in Year 3.

Year 1 (Part IA)
You take four papers:
• Two Outline papers – these typically survey a long period and broad geographical area. You choose from around ten papers, ranging over Britain and Europe, the Americas, Africa and Asia

Year 2 (Part IB)
You take four papers:
• Two Topic papers – these explore focused areas of historical knowledge in depth. You choose from seventeen papers which represent the diverse research interests of the Faculty’s staff

Year 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 (tracing themes ranging from empire to gender, and from revolutions to race)

Additionally, you choose two taught options from amongst the following categories of paper:
• Specified Subjects – exploring a complex theme at the forefront of historical scholarship. Topics change from year to year but currently include the supernatural, medicine, women’s work, slavery, and frontiers

Alternatively, you take one taught option and write a dissertation of 10,000 words, on a topic you devise. Many students find this one of the most rewarding aspects of their time at Cambridge. Recent examples of dissertation topics include Elizabeth I’s ‘Scottish Correspondence’, British India from the standpoint of a nineteenth-century Bengali intellectual community; life on a twentieth-century council estate; and the Korean revolution in twentieth-century France.

Careers
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Related courses
Anglo-Saxon, Norse, and Celtic 44
Archaeology 46
Asian and Middle Eastern Studies 51
Classics 56
Human, Social, and Political Sciences 78
Theology, Religion, and Philosophy of Religion 106

Continued overleaf
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
Language 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 (see p7) 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 other assignments, as well as supervision essays which you discuss with a subject specialist.

There are written exams at the end of each 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 survey papers in history (you have a choice between lectures and supervision-based papers on in-depth historical topics, and class-based papers that explore different approaches to the study of history).

Year 2 (Part IB)
You continue with classes to improve your language skills, and also choose three advanced papers, including at least one in your chosen language (eg 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 or culture 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 (eg 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.

Fact file

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

**2019 entry**
Applications per place 4  
Number accepted 25

**Typical offers require**
A Level
- A/AA IB 40-42 points,  
with 776 at Higher Level

**Other qualifications**
See p147-8

**Admission assessment**
At-interview written assessment
(see p14 and www.cam.ac.uk/assessment)

**Colleges**
Available at all Colleges

**Location**
Map reference S (see p154-5)

Open days 2020
19 March (MMLL Faculty open day)  
– booking required, see the Faculty website
College open days (arts)  
Cambridge Open Days – 2 July, 3 July (see p158)

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 bespoke papers which explore the relationship between the two disciplines.

Course outline
You take four papers in each year. Teaching is provided through University 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, you choose a History Outline paper from a wide range of options, typically including papers on British, European, American, African, and Asian history. You also choose two Politics papers – The Modern State and its Alternatives, and International Conflict, Order and Justice – plus a core interdisciplinary paper in Evidence and Argument.

Year 2 (Part IB)
In Year 2, students choose one paper in each of the following categories:
- a paper in International Organisation or Comparative Politics
- a paper in the History of Political Thought
- a further History Topic paper from a variety of options reflecting the diverse research interests of the History Faculty. The papers available each year may vary – see the History Faculty website for those currently offered.

For the fourth paper, you write a long essay of up to 5,000 words on a question drawn from a wide range of subjects in History and Politics.

Year 3 (Part II)
You choose three papers from a wide range of possible combinations, including third-year Politics and International Relations papers (shared with HSPS) and History Special Subjects and Specified Subjects. Again, the papers available each year may vary – see the History Faculty website for those currently offered. Alternatively, you can replace one of these three papers with a dissertation of 10,000 words on a topic of your choice within the scope of the course.

All students also take a core paper called Theory and Practice in History and Politics which engages with key issues such as democracy, inequality, and war in the light of work throughout the degree course.

Helen

History and ML is an out-and-looking course that taught me about the different ways people live and have lived in the world.

Emma

I’ve really enjoyed exploring how History and Politics relate to one another. It’s great to have the opportunity to study such a broad and exciting range of topics.

Fact file

**Duration**
Three years – BA (Hons)

**2019 entry**
Applications per place 5  
Number accepted 41

**Typical offers require**
A Level
- A/AA IB 40-42 points,  
with 776 at Higher Level

**Other qualifications**
See p147-8

No specific subjects required by all Colleges

**Colleges**
Available at all Colleges

**Location**
Map reference S (see p154-5)

Open days 2020
College open days (arts) Cambridge Open Days – 2 July, 3 July (see p158)
History of Art

Fine collections of art, well-stocked libraries and a spectacular architectural environment on your doorstep mean that Cambridge is a particularly rewarding place to study History of Art.

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 conservation departments, the recently expanded galleries of Kettle’s Yard, and the Colleges’ architecture and 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, students may wish to travel to see works of art and architecture, although this is not required. College financial support is often available for this. Any core departmental trips which form part of the course – for example to museums and galleries – are funded by the Department.

Preparation

We advise that you visit museums, exhibitions and buildings of particular architectural note, and take descriptive notes or sketches of what you see. Try to analyse the effect works of art or architecture have on you.

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!
Human, Social, and Political Sciences

Human, Social, and Political Sciences includes 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 in the first year.

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.
- Social anthropologists 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.
- 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.

Depending on the track 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 three libraries and superb teaching resources including computing facilities, multimedia-equipped teaching rooms, 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 (including the Foreign Office), journalism, management consultancy, national and international NGOs and development agencies, law, teaching, publishing, health management, and public relations.

My favourite part of the course is that I can tailor it to my interests, and research beyond the curriculum, finding case studies that I am particularly interested in and applying them to the theories I am learning.

Alistair

Course outline
Teaching is delivered through lectures, supervisions and seminars. In the first year, you have around eight hours of 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
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.

Years 2 and 3
You choose one of three single-subject tracks (see below), or one of five two-subject tracks – Politics and Sociology, Social Anthropology and Politics, Social Anthropology and Religious Studies, Modern Religious, Sociology and Criminology, or Sociology and Social Anthropology. (Details online).

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 study Comparative Politics, International Organisation, and History of Political Thought. Your fourth paper can be two 5,000 word essays on politics and international relations; a statistics paper; or one offered in another HSPS subject or from others such as History or Psychology (please see the website for the full range).

Year 3
You take a general paper in politics and international relations plus three optional papers. One of these can be a 10,000 word dissertation, and one can be selected from papers in another subject. You can choose from a broad range of papers in politics and international relations, covering diverse themes, regions and contemporary issues.

Social Anthropology
Year 2
You take The Foundations of Social Life, Anthropological Theory and Methods papers and a paper on the anthropology of an ethnic area. Your fourth is an optional paper.

Year 3
You take two advanced anthropology papers – Ethical Life and the Anthropology of the Subject, and Power, Economy and Social Transformation – and choose a further two from a combination of optional papers, an ethnographic area paper and a 10,000 word dissertation.

Optional paper topics in Years 2 and 3 usually include urban anthropology, gender, development, science and society, media and visual culture, as well as choices from another HSPS subject.

Sociology
Year 2
You take Social Theory, Modern Societies II: Global Social Problems and Dynamics of Resistance, and Concepts and Arguments in Sociology or Statistics and Research Methods. Your fourth paper can be a further sociology paper, or one from another HSPS subject, Archaeology, Education, History, History and Philosophy of Science, or Psychological and Behavioural Sciences (PUBS).

Year 3
You choose three papers from a range of sociology and social theory topics – these might cover subjects such as media and culture, gender, war and revolution, global capitalism, social problems in modern Britain, criminology, racism, race and ethnicity, and religion. One paper can be replaced by a 10,000 word dissertation. Your final paper can be a further sociology paper or one from another HSPS subject, from Archaeology, or from PUBS.

Related courses
- Archaeology
- Asian and Middle Eastern Studies
- Geography
- History
- History and Politics
- Psychological and Behavioural Sciences
- Theology, Religion, and Philosophy of Religion

Fact file
- Duration: Three years – BA (Hons)
- Typical offers require:
  - A Level: BBB 40-42 points, with 776 at Higher Level
  - Other qualifications: See p147-8

- Open days 2020
  - College open days (arts)
  - Cambridge Open Days – 2 July, 3 July (see p150)

- Colleges
  - Available at all Colleges

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

- Admissions assessment
  - Some Colleges require applicants to take a written assessment at interview (see p43 and www.cam.ac.uk/assessment).

- Related courses
  - Archaeology
  - Asian and Middle Eastern Studies
  - Geography
  - History
  - History and Politics
  - Psychological and Behavioural Sciences
  - Theology, Religion, and Philosophy of Religion
Land Economy
Environment, Law and Economics

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 natural and built 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 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 emphasis on the development of a broad range of skills.

Our graduates go on to become lawyers, economists, civil servants, and to work for national and international agencies. Many go into financial or business careers, and others enter public service with local or national organisations, or proceed to further study and research.

There are lots of options available. I can tailor the course 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 10-14 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

Year 1 (Part IB)
During your first year you develop the key skill of critical analysis across a range of different disciplines, computer literacy, data management and numeracy skills, and skills in oral presentation and report preparation.

Year 2 (Part II)
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 these three disciplines. You take five papers, including at least one paper on a legal topic, and select your other four papers from a choice of six. Current options include:
- Environmental Economics and Law
- Fundamentals of Finance and Investment
- Land and Urban Economics
- The Law of Real Property: Principles, Policy, and Economic Implications

Year 3 (Part III)
Part III continues the work of the second year, with further opportunity for breadth or depth, depending on your interests or career aspirations.

You will take four papers and write a dissertation. The four papers may be chosen from a wide range of options which currently includes:
- Land Policy and Development Economics
- Advanced Techniques in Finance and Investment for Real Estate
- Land and Urban Economics
- The Law of Real Property: Principles, Policy, and Economic Implications

Other topics include:
- Land, Food and Ecosystem Services
- Land Economy, Development and Sustainability
- Advanced Techniques in Finance and Investment for Real Estate
- Land Policy and Development Economics
- Quantitative and Legal Methods for Land Economists
- Environmental Economics and Law
- Land and Urban Economics
- The Law of Real Property: Principles, Policy, and Economic Implications
Law

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 an extensive collection of printed and electronic resources 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. Through the programme, students are eligible to spend a year studying at one of our partner institutions. Applications are made at the beginning of the second year, with the opportunity for around 15 undergraduates a year to take part in the Scheme. See the Faculty website for details and updates on the Scheme.

After Cambridge
The BA in Law at Cambridge is currently considered a ‘qualifying law degree’ by the Solicitors Regulation Authority (SRA) and the Bar Standards Board. Qualifying law graduates who have completed the seven ‘foundation’ subjects and the legal skills requirement meet the academic component of training as a solicitor or barrister and 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 the SRA is reviewing the requirements for qualifying as a solicitor and a new system may be in place for students starting in 2021. See the SRA website (www.sra.org.uk) for further details.

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.

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

James

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.

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 may include:
• Family Law
• International law
• Administrative Law
• Criminal Procedure and Criminal Evidence
• Legal History
• Civil Law II
• Criminalology, Sentencing and the Penal System
• Comparative Law
• Human Rights 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 European Union 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
• Law of Succession
• 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 Crime and Criminal Justice, Women and the Law, Law and Ethics of Medicine, Public Law, and Select Issues in International Law.

Related courses
Human, Social, and Political Sciences
Land Economy
Management Studies
Philosophy
Linguistics

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 may be 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 pondering 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.

Linguistics at Cambridge
Cambridge Linguistics is internationally recognised as world leading, having come sixth in the QS World University Rankings by Subject 2019, the second highest position attained by a British university. Situated within the Faculty of Modern and Medieval Languages and Linguistics, the Linguistics Tripos 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 competing 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.

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

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 classes. 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 Faculty. 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 II A)
Part II allows you to specialise in the areas which particularly interest you. There’s a wide choice of topics to choose from, taught by the Department as well as other faculties and departments.

In Part IA, 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/French
- Language Acquisition
- Psychology of Language Processing and Learning
- Computational Linguistics

Year 3 (Part II B)
In Part II B, you take:
- Linguistic Theory – a general theory paper
- two further papers from the remaining Part IA options

For your fourth paper, Part II B also includes an element of individual research as you write a dissertation of 6,000-10,000 words on a topic of your choice.
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, from abstract logic to black holes.

Flexibility: a course that suits you
Two 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 you can choose the number of options you study. Some students take as many options as they can; others take fewer and study them very thoroughly.

This structure allows you to keep your options open, giving you the opportunity to discover your strengths, extend your knowledge and develop your interests before specialising.

Our Faculty
Since Sir Isaac Newton was Lucasian Professor (1669-96), mathematics teaching and research here have been enhanced by a string of brilliant mathematicians, including seven Fields Medallists and several Nobel Prize winners. Most current Faculty members are leading international authorities on their subject.

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.

Zoe

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

STEP
For information about STEP see p148. 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 the first three years. 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 SAQ (see p7) 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

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, electromagnetism, and practical work in a laboratory.

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
- numerical analysis

There is also a computational projects course (assessed by means of reports and programs submitted before the summer examinations), using computational 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, for example:
- cryptography
- algebraic topology
- number theory
- cosmology
- general relativity

There is also a computational projects course.

Year 4 (Part III, optional integrated Masters)
Part III has a world-wide reputation for training the very best research mathematicians. Progression to Part III, in which around 75 to 80 options are offered, normally requires a first in Part II or a very good performance in Parts IIA and IIB, and successful completion leads to a BA with MMath. See the Faculty website for more details.

Related courses
- Computer Science 58
- Economics 60
- Engineering 65
- Natural Sciences 99

Fact file
Duration
Three years – BA(Hons)
Four years – MMath

2019 entry
Applications per place: 6
Number accepted: 253

Typical offers require
A Level: A*A*A+STEP
IB: 40-42 points, with 776 at Higher Level + STEP
Other qualifications See p147-8

Admission assessment
Some Colleges require applicants to take a written assessment at interview (see p43 and www.cam.ac.uk/admissions)

Colleges
Available at all Colleges except Wolfson
Most Colleges don’t encourage deferred entry

Location
Map reference X (see p154-5)

Open days 2020
23 April, 2 May – booking required, see the Faculty website
College open days (sciences) Cambridge Open Days – 2 July, 3 July (see p150)

Related courses
- Computer Science 58
- Economics 60
- Engineering 65
- Natural Sciences 99

See p147-8

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

Medicine

UK Foundation Programme and Medical Licensing Assessment (MLA)
Grantees are entitled to hold provisional registration with the General Medical Council (GMC) with a licence to practise, subject to demonstrating to the GMC that they are fit to practise (please note this may be subject to change). To apply for full registration as a doctor, you must satisfactorily complete the first year of a Foundation Programme post and continue to meet fitness to practise requirements. For more information visit www.foundationprogramme.nhs.uk.

A national MLA, to be taken by students in the final year of Medical School, will be introduced in 2022. Further information can be found at www.gmc-uk.org/education.

NHS Bursaries
NHS Bursaries (www.nhsbsa.nhs.uk/nhs-bursary-students/medical-and-dental-students) are currently available for eligible Medicine students in the first year of the Standard Course, or from Year 2 of the Graduate Course.

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) involve lectures, practical classes (including dissections) and supervisions, with typically 20-25 timetabled teaching hours each week. The emphasis during clinical studies (Years 4, 5 and 6) 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.

Assessment, both formative and summative, 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 and 2 (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. Surrounded by some of the world’s best academic biomedical 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 you wish to contribute to clinical academic medicine, combining research and teaching with clinical duties to push forward the boundaries of health care.

Preparing for Patients continues in your third year, regardless of the subject you choose to study. During this year, you visit community- and hospital-based health-related agencies.

Years 4, 5 and 6 (clinical studies)

As a student, your time on clinical placements will be shared between Cambridge Biomedical Campus and Cambridge University Hospitals NHS Foundation Trust, and other regional hospitals and GP practices throughout the East of England.

Throughout your 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 – core clinical practice (Year 4), specialist clinical practice (Year 5) and applied clinical practice (Year 6) – and is built around several major themes, including:

- Communication skills, patient investigation and practical procedures
- Therapeutics and patient management
- Core clinical science, pathology and diagnostic reasoning
- Improving health
- Evaluation and research
- Professionalism and patient safety

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

For more information about the clinical course, visit the School of Clinical Medicine website: www.medschl.cam.ac.uk/education/prospective.

NHS Bursaries

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

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

Hard work, very rewarding
Success in medicine requires application and hard work, both while studying and when in practice. However, Medicine brings great personal rewards, offering a breadth and variety of career opportunities and excellent job satisfaction. No day in the life of a doctor is the same! The application of knowledge and research evidence to patient care provides a unique opportunity to combine scientific expertise with the human interactions that lie at the heart of the profession.

Our courses are intellectually stimulating and professionally challenging. As a medical student, you’ll experience a rigorous, evidence-based medical education within the research-rich environment of the University. Students have opportunities to pursue research and project work throughout the course.

Careers
We enable students to develop the excellent communication, clinical, interpersonal and professional skills required for good medical practice. Our focus on combining training in the core medical sciences with a broad-based clinical curriculum, encompassing primary, community-based and hospital care, prepares our students for a range of careers across general practice, medicine, psychiatry and other specialties.

The MB/PhD Programme
Designed for Standard Course medical students who are interested in a career in academic medicine, the MB/PhD Programme intercalates three years of research between Years 4 and 5. See online for more details (www.medschl.cam.ac.uk/education/courses/mbphd).

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

For more information about the clinical course, visit the School of Clinical Medicine website: www.medschl.cam.ac.uk/education/prospective.

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, Chemistry, Physics and Mathematics. It does not include Psychology.

A Levels
- A Levels in Chemistry and at least one of 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, 99 per cent of applicants for Medicine offered three or more science/mathematics A Levels and, of these, 25 per cent were successful in obtaining a place. Of the four per cent of applicants who offered only two science/mathematics A Levels, just five 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 also apply to the IB – Higher Level subjects.

Other examination systems
See p47-8 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 Test (BMAT) pre-interview (www.cam.ac.uk/assessment).

You should be registered by your assessment centre – often your school/college for the BMAT by 1 October 2020, and take the test on 4 November 2020. Alternatively, you can take the BMAT in September 2020, for which you must register yourself in advance. See website for details and please note you must only take the BMAT once.

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 social care organisation.

We are not prescriptive about how this is obtained, recognising the widely differing opportunities available.

Graduate entry
Graduates may apply for the Standard Course as an affiliate student (see p17) to one of Lucy Cavendish, St Edmund’s or Wolfson Colleges.

- a good Honours degree (2.1 or above) in any discipline
- passes at A Level (or equivalent), as left UK and EU graduates from any academic discipline with a good Honours degree (2.1 or above) and A Level Chemistry (normally passed within seven years of entry) may apply to the accelerated Graduate Course in Medicine (see opposite) at Lucy Cavendish, Hughes Hall, St Edmund’s or Wolfson Colleges.

Overall, graduate medical students with an undergraduate degree in an arts or humanities subject perform equally well on the course as those with biomedical sciences degrees.

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, including specific learning difficulties or a long-term health condition, you should contact a College Admissions Tutor as early as possible to discuss your particular situation and the course requirements. Such disclosures will be considered independently of your academic qualifications and the interview process.

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 makes them extremely sought after in the job market.

Modern and Medieval Languages (MML) at Cambridge

The Cambridge course is hugely flexible and offers a broad and multifaceted approach to the study of language and culture. You can pursue your interests in many areas – from Italian Renaissance art to contemporary Brazilian cinema and 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 (see p94), 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.

We are a large and diverse Faculty which consists of six sections, whose members are internationally renowned experts in their fields. In the Guardian University Guide 2020, 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 for an investment bank in Frankfurt
- studied International Relations at St Petersburg State University
- interned with a Barcelona law firm
- interned with an international fashion brand in Paris
- taught English as a British Council assistant in Mexico

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 (www.mmll.cam.ac.uk/ya).

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
Modern and Medieval Languages (cont.)

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 p51-3).

It is also possible to combine one of these modern European languages with History – see History and Modern Languages (p74).

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 p13) to obtain a further language qualification. Courses are currently available in basic Arabic and Mandarin, and in basic, intermediate and advanced French, German, Italian, Russian and Spanish.

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.mmill.cam.ac.uk/applying/careers.

Course outline

Teaching is made up of lectures, seminars, language classes, intensive oral work in small groups, and supervisions. For your language classes, you receive individual feedback from your teachers, outlining how you can improve further. 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.

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 some students change their mind before (or after) they start.

The main emphasis in Year 1 is on developing your language skills by studying a wide variety of authentic texts and audio visual material, as well as through a variety of teaching 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
- art

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
- film
- art
- thought

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

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.

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, politics, film etc in one or two of your languages.

There are also a number of comparative papers in offer which allow you to combine the study of both of your languages. These may include papers on European film, 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).

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 some students change their mind before (or after) they start.

The main emphasis in Year 1 is on developing your language skills by studying a wide variety of authentic texts and audio visual material, as well as through a variety of teaching 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
- art

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
- film
- art
- thought

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There are also a number of comparative papers in offer which allow you to combine the study of both of your languages. These may include papers on European film, 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).
Music

Our course covers a broad range of music, from medieval plainchant to the blues, and a great range of approaches to thinking about and understanding music, 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 Judith Weis, Emillyn Wallen, Thomas Adès and Academy Award-winning film composer, Steven Price; performers like Joanna MacGregor and Mark Padmore; conductors including John Eliot Gardiner and Nicholas Collon; writers and broadcasters, including Sara Mohr-Pietsch (Radio 3) and crossover artists such as Delia Derbyshire and Clean Bandit.

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 and regular Practising Performance 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 a wide range of fields thanks to the transferable skills they acquire on our course. In recent years, graduates have pursued successful careers in publishing and the media, academia, arts administration, banking, law, public service and the charity sector.

Many of our students do enter the music profession in one guise or another. Recent graduates include pianist Myles Eastwood, composer Thomas Adès and conductor Mark Padmore; conductors including John Eliot Gardiner and Nicholas Collon; writers and broadcasters, including Sara Mohr-Pietsch (Radio 3) and crossover artists such as Delia Derbyshire and Clean Bandit.

Cambridge offers a huge range of ensembles and performing opportunities outside the actual degree itself, so in terms of an all-round musical experience and preparation for the profession, it’s really the ideal place.

Joe

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.

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.

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

Year 1 (Part IA)

The first year consists of compulsory papers in three major areas, and two half-papers chosen from a range of options. These papers provide a secure and interconnected foundation for your further study. You take:

- historical and critical studies – two and a half papers covering issues involved in understanding music and its relationship to society and culture. These include studying historical topics in Western music and thinking broadly about the place of music in contemporary societies (world music, popular music, new music)

- tonal skills and general musicianship – one and a half papers giving you a thorough technical grounding in music of the Western tonal tradition; through writing music in a range of historical styles, aural work, and the acquisition of basic practical skills

- music analysis – a paper that gives you an understanding of what makes music work. You will study different approaches to analysing a broad range of music

- two half-papers chosen from the following extended essay, performance, composition, further study in Western music history

Year 2 (Part IB)

You take a further paper in each of the core Part IA areas (historical studies, analysis and applied tonal skills). Subject to Faculty approval, you can replace one of these papers with an option.

You then choose three more papers from a range of different topics. Subjects change from year to year but normally include:

- in-depth historical topics
- jazz, popular and media musics
- 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. Options available vary each year but recent examples include:

- advanced performance
- advanced performance skills (keyboard or choral)
- a dissertation of 7,000-10,000 words
- composition
- Beethoven’s Late String Quartets
- advanced performance
- advanced performance skills (keyboard or choral)
- a dissertation of 7,000-10,000 words
- composition
- Beethoven’s Late String Quartets
- musical Countercultures of the 1960s
- Exploring Music Psychology
- Persian Polyphony
- Avant, Nationalism and Politics in Spain
- Brahms’s Ein Deutsches Requiem in Context
- Decolonising the Ear

Fact file

Duration

Three years – BA (Hons)

2019 entry

Applications per place: 3
Number accepted: 65

Typical offers require

A Level 4 AA 4 A 4 A 4 A
IB 40-42 points, with 776 at Higher Level

Other qualifications See p147-8

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 require applicants to take a written assessment at interview (see p43 and www.cam.ac.uk/assessment)

Colleges

Available at all Colleges

Location

Map reference 5 (see p154-5)

Open days 2020

College open days (arts):
Cambridge Open Days – 2 July, 3 July (see p150)

Related courses

History 72
History of Art 78
Human, Social, and Political Sciences 78
Philosophy 102
Psychological and Behavioural Sciences 104
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 overleaf, 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 a broader option in either the Biological Sciences or the Physical Sciences. Visit www.natsci.tripos.cam.ac.uk/subject-information/part2 for more details.

After Natural Sciences
Around half of our graduates continue with further study or research: indeed, Natural Sciences prepares students very well for the challenges of research, especially in emerging, interdisciplinary areas. The other half go directly into a broad range of careers including teaching, product development, investment banking and management consultancy.

One of the strengths of the Natural Sciences course is that students develop a range of skills that are highly valued by employers of all types and become well prepared for life beyond Cambridge, whichever pathway they choose.

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
Some preparatory work before the start of the course and must take

If you don’t have A Level Mathematics, you’re required to complete

• A Level Physics, A Level Mathematics

Pre-interview written assessment (see p43 and

Admission assessment

Other qualifications

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

International Baccalaureate

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 and encouraged 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 Level Mathematics, you’re required to complete some preparatory work before the start of the course and must take

Mathematical Biology (focusing on Biological Sciences): Highly desirable: A Level Mathematics

Behavioural Sciences: Highly desirable: A Level Biology

Cell Biology: Highly desirable: A Level Chemistry

Useful preparation: A Level Biology

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

Highly desirable: A Level Mathematics

Earth Sciences: Essential A Level in at least two science subjects

Note: No previous subject knowledge necessary

Evolution: Highly desirable: A Level Biology

Materials Science: Essential A Level Mathematics, and either Chemistry or Physics

Physics: Essential A Level Mathematics and Physics or Mathematics and Further Mathematics, including the section on Mechanics

Useful preparation: A Level Further Mathematics

Physiology: Useful preparation: A Level Biology and/or A Level Physics

Mathematics options

Essential A Level Mathematics

Mathematical Biology (focusing on Biological Sciences): Highly desirable: A Level Mathematics

Subject requirements for Year 1 options

Year 2 (Part IB)

You choose a combination of three subjects, drawn from the following areas:

• Animal Diversity

• Biochemistry

• Cell Biology

• Cell Chemistry

• Chemistry A: Physical & Theoretical Chemistry

• Chemistry B: Organic & Inorganic Chemistry

• Conservation

• Earth Sciences: Earth Surface Environment

• Earth Sciences: Earth Subsurface Process

• Sciences

• Ecology

• Evolution

• Genetics

• History and Philosophy of Science

• Microbiology

• Molecular biology

• Neurobiology

• Pathology

• Pharmacology

• Physics A: Waves, Quantum Mechanics, Condensed Matter Physics

• Physics B: Dynamics, Electromagnetism, Thermodynamics

• Physiology

• Plant sciences

• Psychology

• Evolutionary Ecology

• Evolutionary Genetics

• Evolutionary Systematics

Years 3 and 4 (Parts II and III)

You can opt to follow a broad spectrum Part II subject in Biological or Physical Sciences, or you can choose to specialise in one of a wide range of areas, including

• Astrophysics

• Biochemistry

• Chemistry

• Earth Science

• Genetics

• History and Philosophy of Science

• Materials Science

• Neuroscience

• Pathology

• Pharmacology

• Physics

• Physiology, Development and Neuroscience

• Plant Sciences

• Psychology

• Systems Biology (Part II only)

• Zoology

Some Part II subjects have competitive entry due to limited space. A full list of the topics available can be found on the Natural Sciences website (www.natsci.tripos.cam.ac.uk/subject-information/part2).

The IB. 40-42 points, with 776 at Higher Level

Other qualifications See p47-8

See box on p100 for subject requirements

Admission assessment

Pre-interview written assessment (see p48 and www.cam.ac.uk/assessment).

Colleges

Available at all Colleges

Location

Map references C, D, J, M, W

See p154-5

Open days 2020

College open days (science) Cambridge Open Days – 2 July, 3 July (see p150)

Related courses

Chemical Engineering 54

Engineering 66

Geography 76

Mathematics 92

Psychological and Behavioural Sciences 104
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.

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.

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.

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 far-reaching 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 preoccupations. For instance, we currently offer papers on Greek and Roman, and early modern philosophy, as well as preoccupations. For instance, we currently offer papers on Greek and Roman, and early modern philosophy, as well as preoccupations. For instance, we currently offer papers on Greek and Roman, and early modern philosophy, as well as.
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, 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, 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. Our course also equips you with skills and knowledge applicable in a range of professional sectors, including the media, management, the Civil Service, finance, law and business.

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. Recent graduates of psychology at Cambridge have gone on to positions in psychology and related fields, as well as careers in social, community and charity work, research and teaching.

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

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.

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.

In Part I, 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
- evolution and behaviour
- philosophy
- sociology

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

In Part IB, psychology paper, which teaches research methods and includes laboratory work.

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.

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

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

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 subjects 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
- criminology
- selected subjects from those offered at Part IIB

Fact file

Duration
Three years – BA (Hons)

2019 entry
Applications per place: 7
Number accepted: 71

Typical offers require
A Level
A*AA
IB
40–42 points, with 776 at Higher Level

Other qualifications See p47-8
No specific subjects required by all Colleges

Some Colleges require
A Level/IB Higher Levels in one or two science/mathematics subjects

Admission assessment
Some Colleges require applicants to take a written assessment at interview (see p43 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges except Peterhouse

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

Open days 2020
College open days (sciences)
Cambridge Open Days – 2 July, 3 July (see p150)

Related courses
Education 62
Human, Social, and Political Sciences 78
Linguistics 84
Natural Sciences 90
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 rigorous 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. Encompassing 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 Bavaricus (an important early version of the Gospel) and the Genizah collection (a globally significant source for medieval Judaism). The Fitzwilliam Museum also houses a wide range of artefacts related to various world religions.

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. Many of our students continue to further study in theology or related disciplines, teacher training or law conversion courses. Our graduates commonly choose professional career routes in business, public services, the media and education.

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

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

- Christianity and the Transformation of Culture – the study of processes of conversion and Christianization in the late Roman world
- The Question of God – exploring some of the major themes of Christian theology
- Understanding Contempor ary Religion – an introduction to the sociological study of religion

Introduction to Judaism, Islam, Hinduism and Buddhism
Philosophy of Religion and Ethics – these two papers introduce key questions in philosophy of religion and ethics, ranging from antiquity to contemporary controversies

Year 2 (Part IIA)
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 around 17, currently including:

- Introduction to Islam
- Ethics and Faith
- Philosophy of Religion: God, Freedom and the Soul
- The Johannine Tradition
- Life and Thought of Religious Hinduism
- Christianity in Late Antiquity

You can also choose to take the Part IA Meaning paper from the Philosophy course, which will be taught alongside Philosophy students.

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

- Truth, God and Metaphysics
- Apocrypha
- Theology and Natural Sciences: God and Creatures
- New Testament Christology
- Judaism and Western Philosophy
- Judaism and Hellenism
- Self and Salvation in Indian and Western Thought
- World Christianity

You can choose to write a dissertation of 10,000 words in your third year instead of one paper. You may also continue with a scriptural language.
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.

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 from Year 1. 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, an equine post-mortem suite, all available for students during their clinical studies, 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.

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

- Trainee veterinary surgeons must satisfy the Royal College of Veterinary Surgeons’ fitness to practise requirements, both when applying and throughout the course.
- Offer holders are required to undergo a Disclosure and Barring Service (DBS) check.
- 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.

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

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.

- ‘Science/mathematics subjects’ refers to Biology, Chemistry, Physics and Mathematics. It does not include Psychology.

A Levels

- A Levels in Chemistry and at least one of 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.

International Baccalaureate

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

Other examination systems

See p43 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 p43 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. We recommend applicants acquire two weeks of work experience, if possible.

Graduate entry

Graduates may apply as an affiliate student (see p111) 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 A1 Level (or equivalent), as above.
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 classes, with a lecture-free final year.

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 and 2 (pre-clinical studies)
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.biology.cam.ac.uk/undergrads/VetST

Year 3
You specialise 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 pilot)
• Part II Biological and Biomedical Sciences (see pilot)
• a subject less obviously related to veterinary medicine, such as Anthropology or Management Studies

This feature of the course gives you the opportunity to specialise in an area of interest to you, expanding your knowledge and preparing you for a career after graduation. Following this, 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.

Years 4, 5 and 6 (clinical studies)
In Year 4, you study topics including:
• clinical pharmacology
• anatomical and clinical pathology
• microbiology and veterinary parasitology
• clinical pharmacology

You also learn about veterinary public health, including food hygiene, state veterinary medicine and the medicine of ruminants, 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
You continue the different courses in species medicine started in Year 4, and instruction is also given in subjects including:
• cardiology
• neurology
• oncology
• endocrinology

Two mornings every week are again 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
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’ self-selected 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.

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.

www.biology.cam.ac.uk/undergrads/VetST
www.vet.cam.ac.uk/study/vet
admissions.enquiries@vet.cam.ac.uk
01223 330811 / 766365

You can read more about Years 1 and 2 online at: www.vet.cam.ac.uk/study/vet

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www.biology.cam.ac.uk/undergrads/VetST
www.vet.cam.ac.uk/study/vet
admissions.enquiries@vet.cam.ac.uk
01223 330811 / 766365
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.

Fact file

**Duration**
One year

**Entry requirements**
Competitive entry after two or three years of another Cambridge course.

**Places available**
60

**Location**
Map reference J (see p154-5)

1 Please note that not all Colleges allow students whose original course is three years to stay on to take Management Studies as a fourth year.

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 Cambridge Judge Business School 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 employment across the full range of industry sectors, organisation sizes and localities. Recent graduates have gone on to careers for employers including Accenture, Allen & Overy, Bain & Company, Barclays, Clifford Chance, JP Morgan, LEK Consulting, Mastercard, McKinsey & Company, Morgan Stanley, PepsiCo, and Sainsbury’s.

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 Engineering or Chemical Engineering. Applications from other science courses may be considered.

Fact file

**Duration**
Two years

**Entry requirements**
Competitive entry after successful completion of Engineering Part I (see p157) or Chemical Engineering Part I (see p155).

**Places available**
60

**Location**
Map reference W (see p154-5)

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.

An international emphasis
Towards the end of the course, students are encouraged to organise a voluntary overseas research tour for the whole group to investigate an area of current relevance. Recent projects have looked at how the manufacturing industry is emerging and evolving in countries such as India and China, and the Californian approach to industrial sustainability.

Teaching
Lecture courses (taught papers) provide the academic framework for the subject, and are complemented by project work, industrial visits, a programme of personal and business skills development, as well as projects based at the University and in industry. Successful completion of the programme leads to the award of the BA and MEng degrees.

Careers
Our graduates are much sought after for demanding jobs, 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.