Using our course pages

On each course page, you’ll find information about course structure and content, and important admissions details to help you decide which is the best course for you.

Course outline
You’ll find the details of what you’ll study each year in the course outline. You can also find out more about how you’ll be taught (including contact hours) and the assessment methods that form part of your course. At Cambridge, the main form of assessment is written examinations.

Typical offers
The Colleges expect required subjects to be passed, normally with an A* or 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.

To help you get an idea of the best subjects to study for your chosen course, we have included the following subject details on each entry:

• 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

You should visit the relevant course webpage for details of the entry requirements at each College (www.cam.ac.uk/courses).

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). You should check individual College websites for details of their admission assessment arrangements, and mature students should refer to p36-7 for more information.

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

Course statistics
We’ve included application and admissions statistics for 2020 entry in each course fact file. The University admitted a higher number of students in 2020 than usual, following changes to the awarding of A Levels (and equivalent qualifications) in Summer 2020. Please visit our website to find further statistics from previous years (www.cam.ac.uk/ugstatistics).

Contact details
Department and faculty contact details can be found in the top bar on each spread. You can contact the course teams for specific details.

Next steps
When you’ve chosen your course, you’ll need to decide which College to apply to. There’s more information about how to choose a College on p114-5.

Courses
At Cambridge, we offer a range of courses, across the arts, humanities, and sciences. One of the most distinctive characteristics of our courses is that they generally cover the subject area very broadly in the initial years and then offer a wide range of specialist options in the later years.

If you know what you want to focus on you can usually 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 developed your interests. Either way, by graduation you’ll have the same depth of understanding and knowledge as other graduates in the field.

Generally, the number of subjects to choose from increases each year and some papers (topics) are offered in numerous courses – check the course outlines for more details. 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 course contents overleaf, where all of our subjects, and the courses they’re offered in, are listed.

Sometimes, at Cambridge, your course might also be referred to as a Tripos. For example, the Mathematics course may also be known as the Mathematics Tripos.

Undergraduate Study website
www.cam.ac.uk/courses

Please note
We may need to make changes to the delivery of our courses due to the COVID-19 pandemic and/or Government guidelines and restrictions. It is very important that you check the University and department/faculty websites detailed throughout for the most up-to-date information before applying or accepting an offer to study at the University. Please see p159 for more details.

Check the next page for our course contents
Our courses

We offer 30 undergraduate courses at Cambridge, covering more than 65 subjects. See the index (p156-8) for a full list of subjects.

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<td>Electrical and Information Sciences</td>
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<td>Theology, Religion, and Philosophy of Religion</td>
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<tr>
<td>Medicine</td>
<td>88</td>
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</table>

You can hear more about our courses, directly from the students studying them, in our course videos. Follow the link on each course webpage to watch the video for your chosen course and find out what it’s like to study at Cambridge.

Foundation Year in Arts, Humanities and Social Sciences

A free and fully-funded one year course designed to offer a stepping stone to Cambridge for those who have experienced educational disadvantage.

On the Foundation Year you can expect an exciting and challenging academic curriculum in the arts, humanities and social sciences. This offers the best possible preparation for the rigours of a Cambridge degree course by broadening and deepening your knowledge and understanding as well as introducing you to the ways students learn at Cambridge.

Applicants should apply via UCAS by 15 January 2022.

Course outline

You will study a specially designed, multidisciplinary course that focuses on developing your learning skills and preparing you for degree study. You can choose papers from across a number of streams, allowing you to gain subject knowledge relevant to your future degree course. You will be taught through lectures, seminars and supervisions and develop your ability to take philosophical, reflective and critical approaches to different sources, using a range of methods of analysis.

After the Foundation Year

You will gain a Certificate of Higher Education from the University of Cambridge on successfully finishing the course, as well as being equipped to continue to a number of degree courses in the arts, humanities and social sciences. Completing the course to the required standard will allow you to progress to one of 18 degree courses at the University, including Classics (p56), English (p68), History (p72), Human, Social and Political Sciences (p78), and Modern and Medieval Languages (p93). Please visit the website for the full list of courses.

During the Foundation Year, you will also be supported to apply to courses at other universities.

Fees

There are no tuition fees charged for the Foundation Year. However, if you continue to study at Cambridge by progressing to a degree course you will need to pay the tuition fee for that course. You will also also receive a non-repayable scholarship during the Foundation Year equivalent to the value of the government’s full maintenance loan and a Cambridge Bursary (see p32). Visit our website to find out more.
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 Cuailnge (The Cattle Raid of Cooley) and Icelandic sagas. Exactlly 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 research and teaching in schools and universities, or work in museums and libraries; while many others go into careers including journalism, publishing, banking, law, the Civil Service, industry and business, and even software development.

“I couldn’t decide which I preferred out of history and literature, and ASNC offered me the opportunity to combine both those interests.”

Ben

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**Fact file**

**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

**Language and literature subjects:**

- Old English
- Old Norse
- medieval Welsh

**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:

- Rethinking the Viking Age
- Germanic Philology
- Advanced Medieval Irish Language and Literature

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

In addition, you write a dissertation of between 9,000 and 12,000 words on a specific subject of your own choice within the scope of the course.
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 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. The research we do ranges widely across time and locations, from discovering where the gold from Tutankhamun’s mask came from, to studying the population genetics of south-east Asian islands, to uncovering the impact of plague on medieval Cambridge. Our staff are at the forefront of research, involving students through fieldwork and research projects. Over the course of your degree, you might find yourself studying the behaviour of chimpanzees, learning about our oldest human ancestors, translating Egyptian hieroglyphs, learning about radiocarbon dating, or examining imagery in a Babylonian poem.

Outstanding opportunities

Our excellent resources include the Cambridge Archaeological Unit (a dedicated professional field unit), purpose built laboratories and dedicated libraries. In addition, the Duckworth Collection of human and primate fossils and 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 – the ability to think critically, analyse texts, handle data and work collaboratively – mean they’re widely sought after by employers. Graduates have gone on to work in the commercial archaeology sector in the UK and internationally as well as for other heritage organisations such as the National Trust and Historic England. Recent graduates have also gone into law, advertising, media, conservation, health and further academic study.

Fact file

**Duration** Three years – BA (Hons)

**2020 entry** Applications per place: 2 Number accepted: 24

**Typical offers require**

- A Level A**A** A**A**-**A**
- 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 p41 and www.cam.ac.uk/assessment)

**Colleges** Available at all Colleges except Queens’

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

**Open days 2021**

See Department website for details

College open days (arts)

Cambridge Open Days – see p152-3

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**

In Year 2 (Part IIA), 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).

In 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**

You take four papers in Year 2 (Part IIA): Mesopotamian archaeology, Babylonian language, Mesopotamian culture and one from other course options (some can be from Classics or HSPS).

You undertake a four-week study tour and/or fieldwork before starting Year 3 (Part IIB). In Year 3, you take further papers in Babylonian and Assyrian language, Mesopotamian archaeology, Mesopotamian culture, or Sumarian 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**

In Year 2 (Part IIA), you take papers in Egyptian language and archaeological methods and concepts, plus two papers on society, religion and death in Ancient Egypt.

You undertake a four-week study tour and/or fieldwork before starting Year 3 (Part IIB). In 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**

In Year 2 (Part IIA), 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 other.

In Year 3 (Part IIB), 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.

Some papers include assessed practicals/fieldwork. Most students write a 10,000 word dissertation in Year 3.

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.

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.
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 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 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, materials laboratory, art and sculpture 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 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 many choose to 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.

When you have completed all three parts of the ARB/RIBA requirements, you will be able to register as an architect with the ARB.

Course outline
Year 1 (Part IA)
The studio work introduces the possibilities of architecture, with an emphasis on understanding and developing proficiency in traditional modes of architectural representation – models, collage, perspectives, elevations 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)

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 responsible-sized buildings. Emphasis is on integrating the technical skills learnt in Part IA and in the ongoing Part IB lectures with your studio output. A voluntary study trip is usually offered.

For the first year, 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 models and drawings to communicate your ideas. You are supervised in 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.

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 many choose to 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.

When you have completed all three parts of the ARB/RIBA requirements, you will be able to register as an architect with the ARB.

Course outline
Year 1 (Part IA)
The studio work introduces the possibilities of architecture, with an emphasis on understanding and developing proficiency in traditional modes of architectural representation – models, collage, perspectives, elevations 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)

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 responsible-sized buildings. Emphasis is on integrating the technical skills learnt in Part IA and in the ongoing Part IB lectures with your studio output. A voluntary study trip is usually offered.

For the first year, 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:
- Principles of Construction
- Principles of Structural Design
- Principles of Environmental Design

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

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<th>Duration</th>
<th>Three years – BA (Hons)</th>
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<tbody>
<tr>
<td>2020 entry</td>
<td>Applications per place: 9</td>
</tr>
<tr>
<td>Number accepted</td>
<td>37</td>
</tr>
</tbody>
</table>

Typical offers require
- A Level A/A*/34-40 points, with 376 at Higher Level
- Other qualifications: See p49-50

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

No specific subjects required by all Colleges

Some Colleges require
- AS or A Level/B HIGHER LEVEL Mathematics or Physics, A Level/Bhigher Level in an essay-based subject

Admission assessment
- At interview and written and practical assessments (see p41 and www.cam.ac.uk/assessment)

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

Location
- Map reference L (see p154-5)

Open days 2021
- College open days (art)
- Cambridge Open Days – see p152-3

Related courses
- Engineering 65
- History of Art 76
- Land Economy 80

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 one or two classes and two or three small-group supervisions each fortnight, for which you’re required to complete essays and undertake preparation
You do not 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, determination, 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 courses are very flexible and offer numerous options and combinations through which to pursue your interests. You do not need 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 civilisation 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.

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"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
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 will be asked to indicate which language(s) you are interested in studying as part of the application process.

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 fantastic opportunity to immerse yourself in the culture you are studying and improve your language skills. Chinese and Japanese students study at a Faculty-approved university in the appropriate country. Japanese studies also offers some internship opportunities. Students of Arabic, Persian and Hebrew have some choice of which country they go to and what they 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 AMES graduates is vast and many use their subject directly in subsequent employment. Career choices include the media, business and commerce, the Civil Service (especially the Foreign Office), tourism, teaching overseas and NGOs. Our graduates have also gone into banking, marketing and law. Even if you choose not to stay in a related field, employers are often impressed by your choice to study a difficult language.

Fact file

Duration
Four years – BA (Hons) (Year 1 spent abroad)

2020 entry
Applications per place: 2
Number accepted: 49

Typical offers require
A Level/IB
A*AA

IB 40-42 points, with 776 at Higher Level

Other qualifications
See p149-50

All Colleges require
A Level/IB Higher Level in the European language (if you want to combine with a European language)

Admission assessment
Some Colleges require applicants to take a written assessment at interview (see p41 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference S (see p154-5)

Open days
See Faculty website for details
College open days (arts)
Cambridge Open Days – see p52-3

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.

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 and the Middle East, depending on the language(s) that you are 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
- Arabic, Hebrew, and Persian – literature (Arabic, Hebrew, Persian), classical Islamic civilization, formation of the modern Middle East, the anthropology of Islam, Hebrew culture, Hindi, cinema, linguistics, Islam, Judaism

You spend Year 3 abroad. See the website for full course details.

Years 3 and 4 (Part II)

In Year 3, you spend at least eight months abroad developing your language skills and deepening your understanding of the culture that you are 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, pre-modern Chinese literature, contemporary Chinese society, Chinese linguistics, China in the International Order, Chinese religions
- Arabic, Hebrew, and Persian – classical and/or modern literature (Arabic, Hebrew and Persian), empires of the Persianate world, imperialism and Islamic law, pre-modern Islamic cities, the invention of Israeli culture, Semitic linguistics, Sanskrit, Hindi, Islam, Judaism

- "Doing a dissertation gave me the opportunity to consolidate my research and Japanese language skills in a project where I could explore my own specific interests. The chance to produce a piece of writing at research level has also helped me develop tools that have been invaluable for navigating the competitive graduate job market."

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

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 transferrable skills. The underlying theory is complemented by lectures and projects that teach process and chemical product design.

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

Teaching and facilities
Our Department enjoys a reputation for excellence in its teaching and research, regularly topping national league tables. The Department’s purpose-built building features the highest quality teaching and research facilities.

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. Previous graduates have gone into the chemical, process and food industries, and finance and management consultancy, as well as further study.

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.

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

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

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 IIB)

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.

Fact file

Duration
Four years – MEng

2020 entry
Applications per place: 9
Number accepted: 40

Typical offers require
A Level A*AA
IB 40-42 points, with 776 at Higher Level
Other qualifications: See p49-50

ENGINEERING ROUTE
All Colleges require
A Level/AIB Higher Level Mathematics, Chemistry and Physics
Some Colleges require
STEP I (see p150)

NATURAL SCIENCES ROUTE
All Colleges require
A Level/AIB Higher Level Chemistry and Mathematics
Some Colleges require
A Level/AIB Higher Level Physics, A Level Further Mathematics

Admission assessment
Pre-interview written assessment (see p41 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference W (see p154-5)

Open days 2021
College open days (sciences) Cambridge Open Days – see p152-3

Related courses
Engineering 65
Natural Sciences 99

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. Previous graduates have gone into the chemical, process and food industries, and finance and management consultancy, as well as further study.

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

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

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 IIB)

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.

Fact file

Duration
Four years – MEng

2020 entry
Applications per place: 9
Number accepted: 40

Typical offers require
A Level A*AA
IB 40-42 points, with 776 at Higher Level
Other qualifications: See p49-50

ENGINEERING ROUTE
All Colleges require
A Level/AIB Higher Level Mathematics, Chemistry and Physics
Some Colleges require
A Level/AIB Higher Level Physics, A Level Further Mathematics

Admission assessment
Pre-interview written assessment (see p41 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

Location
Map reference W (see p154-5)

Open days 2021
College open days (sciences) Cambridge Open Days – see p152-3

Related courses
Engineering 65
Natural Sciences 99

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. Previous graduates have gone into the chemical, process and food industries, and finance and management consultancy, as well as further study.

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

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

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 IIB)

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.
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-year course.

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/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 transferable skills that are essential for many careers after graduation. Our students are hard-working, articulate, accurate and efficient, able to take on and 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.

Fact file

<table>
<thead>
<tr>
<th>Course Outline</th>
</tr>
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<tbody>
<tr>
<td><strong>FOUR-YEAR COURSE</strong></td>
</tr>
<tr>
<td>No specific subjects required by any Colleges</td>
</tr>
<tr>
<td><strong>Useful preparation</strong></td>
</tr>
<tr>
<td>Classical/Civilisation, English (Language or Literature), History, a language (ancient or modern)</td>
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<tr>
<td><strong>Admission assessment</strong></td>
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<tr>
<td>At interview written assessment (see p41 and <a href="http://www.cam.ac.uk/assessment">www.cam.ac.uk/assessment</a>)</td>
</tr>
<tr>
<td><strong>Colleges</strong></td>
</tr>
<tr>
<td>Available at all Colleges</td>
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<tr>
<td><strong>Location</strong></td>
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<tr>
<td>Map reference S (see p154-5)</td>
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<tr>
<td><strong>Typical offers require</strong></td>
</tr>
<tr>
<td>A Level/A/IB 40-42 points, with 776 at Higher Level</td>
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<tr>
<td>Other qualifications See p49-50</td>
</tr>
<tr>
<td><strong>THREE-YEAR COURSE</strong></td>
</tr>
<tr>
<td>All Colleges require</td>
</tr>
<tr>
<td>A Level/IB Higher Level Latin (A Level/IB Higher Level Classical Greek is accepted as a substitute at some Colleges)</td>
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<tr>
<td><strong>2020 entry</strong></td>
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<tr>
<td>Applications per place: 2</td>
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<tr>
<td>Number accepted: 106</td>
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<tr>
<td><strong>Duration</strong></td>
</tr>
<tr>
<td>Three or four years – BA (Hons)</td>
</tr>
</tbody>
</table>

Careers
During Part IA and Part IB, 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)

Written texts are a major source of evidence for classical antiquity, so you study texts in the original Greek and Latin from the most familiar periods of ancient literature by central authors such as Homer, Euripides, Plato, Vingi, Dvid and Cicero.

You also study elements of ancient history, archaeology, art, philosophy, philology and linguistics to build the broadest possible understanding of the ancient world and our relationship to it. Reading and language classes directed by specialist language teachers, as required, extend your knowledge of the ancient languages. End of year exams: test your linguistic and literary comprehension and essay writing skills.

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
- philosophy

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

Year 3 (Part II)

You can specialise within one discipline (eg archaeology) or construct a wider-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
- classical influences on contemporary American poetry
- language, eg Greek in the Bronze Age, a multidisciplinary paper, eg Rome – the Very Idea
- linguistics, eg Classical Art
- comparative linguistics
- ancient art
- comparative linguistics
- the nature and role of pleasure in human life

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. Fast dissertations have covered:

- classical influences on contemporary American poetry
- Homer and Vingi
- Greek tragedy and politics
- art and archaeology in Roman Egypt

Nathan

“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.”
Computer Science

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

Computer Science at Cambridge
Cambridge was a pioneer of computer science and continues to lead its development. There are more than 1,000 specialist computing and advanced technology companies and commercial laboratories in the area (known as ‘Silicon Fen’). A number of local firms and start-ups support our teaching and employ our graduates, in areas from chip design to mathematical modelling and AI.

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).

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, 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.

Careers
Our graduates’ knowledge and skills embody principles which will outlast today’s technology, making them highly sought after by industry and commerce alike.

Many of our graduates go on to work as programmers or software development professionals, with others pursuing further study and careers in teaching and research. Many graduates have founded companies or gained employment in software, hardware, the games industry, finance, communications and commerce.

To get an idea of what’s currently on offer to our graduates, visit: www.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!”

Chloë

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.maths.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, programming – including compiler construction, advanced algorithms
- applications and professionalism – including artificial intelligence, graphics, security

You also undertake a group project that 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 cloud computing, data science and robotics.

All students also work on a substantial project demonstrating their computer science skills, writing a 10,000 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 II leads to the MEng qualification, as well as the BA degree attained at the end of Part I.
Our Economics course provides a rounded, rigorous education in economics which is valuable for a wide range of career paths.

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 love the Economics course here – from history and politics to game theory and econometrics, the course hones both your quantitative and qualitative skill sets. You don’t just learn economics but, far more valuably, how to think critically like an economist.”

Farid

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

Teaching and resources
Past and present Faculty members, such as Alfred Marshall and John Maynard Keynes, have played a major role in the subject’s development and several have been awarded the Nobel Prize in Economics (Sir John Hicks, James Meade, Sir Richard Stone, Sir James Mirrlees and Amartya Sen). The present Faculty remains committed to using economics to improve public policy and recent staff have been active on, among other bodies, the Monetary Policy Committee of the Bank of England and the Competition Commission, and they advise international agencies such as the United Nations, World Bank, International Monetary Fund and Organisation for Economic Co-Operation and Development.

Other benefits for Cambridge Economics students include access to an extensive range of statistical databases and software, and the Marshall Library of Economics, which holds a comprehensive collection of books, journals and other papers in economics. The student-run Marshall Society organises social events and informal lectures from distinguished visiting speakers.
The Education degree is an interdisciplinary study of the human mind, society and culture, which you can explore alongside one of three specialist fields: Psychology of Learning, Policy and International Development, or English, Drama and the Arts.

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 English.

Facilities and resources

The Faculty of Education has excellent resources and facilities within a purpose-built building, designed to support teaching, learning and research. There are a psychology laboratory and a library that houses an extensive collection of material on education and related fields. Active research forms the foundation of our teaching, so you’re taught by academics at the forefront of their fields, who specialise in cutting-edge research.

Course outline

You will be asked to indicate which track you’re interested in studying as part of the application process. You attend approximately four to six lectures and seminars, and one or two hours of supervision per week.

Year 1 (Part IA)

You take four papers, including two compulsory Education papers which have a strong interdisciplinary emphasis, introducing major themes in education: child development and education in a variety of social and cultural environments; and a further psychology paper on education from a psychological perspective, exploring active research.

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

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 (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.

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 (topics may include: childhood studies, children’s literature, play and creativity). 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: neuroscience and learning, applied theatre, inclusion and diversity, gender, policy, and international development case studies.

Fact file

Duration Three years – BA (Hons)

2020 entry Applications per place: 3
Number accepted: 44

Typical offers require

A Level: A**+A+ (or equivalent)
IB: 40-42 points, with 7,7,6 at Higher Level
Other qualifications: Some will consider AS-level, but each track has specific subject requirements

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

Admission assessment

Some Colleges require applicants to take a written assessment at interview (see p41 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 p54-5)

Open days 2021

College open days (and Cambridge Open Days – see p152-3)

Related courses

English 68
Geography 78
History 72
Human, Social, and Political Sciences 78
Psychological and Behavioural Sciences 104

Admission assessment

Some Colleges require applicants to take a written assessment at interview (see p41 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 p54-5)
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 Dyson Centre for Engineering Design provides access to traditional hand and machine tools, as well as modern computer-controlled machinery and rapid prototyping; the Design and Project Office is equipped with more than 80 workstations; and the library has 30,000 books and takes about 350 journals. The Department’s Language Programme offers specialised courses at all levels in French, German, Spanish, Chinese and Japanese.

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

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

Accreditation
The course is accredited by the Engineering Council and by all the major institutions, including the Institutions of Mechanical Engineers (I MechE), Engineering and Technology (IET), Civil Engineers (ICE), and Structural Engineers (I StructE), 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 students on the Engineering course are very friendly, and you get to know lots of people by working on labs together.”

Liz
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 96 per cent of respondents to the Graduate Outcomes survey reporting that they were in employment or further study 15 months after graduation.¹

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.

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 p150)

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 or 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.

¹Based on responses to the Graduate Outcomes survey. This records the outcomes of students who completed their studies between August 2017 and July 2018. 69 per cent of Engineering graduates responded to the survey.
English

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 is intellectually liberating.”

Camilla

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

You typically attend at least six hours of lectures or seminars, and two to three hours of individual, paired or small-group supervision each week. You normally write one or two short essays per week which you then discuss with your supervisor. As well as unseen exams, there’s a compulsory dissertation and over the three years you can replace three 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 1300-1550) and a further three papers from the following list:

- Early Medieval Literature and its Contexts 1066-1150
- English Literature and its Contexts 1500-1700
- English Literature and its Contexts 1560-1700
- English Literature and its Contexts 1830-1945 or English Literature and its Contexts 1660-1870

One of these papers (with the exception of Early Medieval Literature and its Contexts 1066-1150) 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 dissertation (of 6,000-7,500 words) and take one optional paper, or choose two optional papers. The optional papers change regularly—the following are available in 2020-21:

- Chaucer
- Medieval (English Literature 1066-1550: The Medieval Supernatural)
- Material Renaissance
- Lyric
- Prose Forms 1936-56
- The Ethical Imagination
- American Literature
- 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 1947-72
- Love, Gender, Sexuality 1740-1824

Subject to certain restrictions, it is possible to take papers from the Anglo-Saxon, Norse and Celtic, Classical, or Modern and Medieval Languages courses. Further details of these papers are available on the Faculty website.
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 degree with global relevance
Geographers study some of the biggest challenges facing our planet, from food security, climate and biodiversity emergencies to pandemics and globalisation, and the ways in which our societies react to these problems. Our Geography course tackles these issues. You do not have to choose whether to specialise in physical or human geography as you can do both in all three years.

Facilities and resources
Our library, at the heart of the Department, contains around 20,000 books, journals and periodicals, and is also a fantastic study space. You will also work in our computer suite and physical geography labs, with some teaching taking place at the Scott Polar Research Institute, another integral part of the Department.

Fieldwork and travel
Fieldwork is a fundamental part of the course and provides an enjoyable way to develop your research skills. There are a number of one-day excursions each year, depending on your choice of papers. In the second year, there is a compulsory residential field trip each year, usually based around geographical risk (the exact focus varies from year to year).

You also undertake project work involving field, lab and computer skills and techniques. Projects vary according to which papers you choose, but may include tectonics and volcanism; coastal processes; Quaternary-climate change; biogeography; atmosphere and climate change; and archaeology.

Careers
Cambridge Geography graduates are highly skilled in dealing with complex problems, in information retrieval, data management, statistics and specialist software, and are used to working independently and communicating efficiently. Your geography degree opens many career doors allowing you to compete alongside those with degrees in STEM as well as the Arts, Humanities and Social Sciences.

We will support you in finding placements and internships, as well as in planning your future career. Our graduates enter many different careers, including planning, teaching, finance, social and community work, media, politics, and the Civil Service.

Fact file

- **Duration:** Three years – BA (Hons)
- **2020 entry:** Applications per place: 3, Number accepted: 116
- **Typical offers require:**
  - A Level/IB: A*AA/40-42 points, with 765 at Higher Level
  - IB qualifications: See p149-50
  - No specific subjects required by all Colleges
- **Some Colleges require:** A Level/IB Higher Level Geography
- **Admission assessment:**
  - Some Colleges require applicants to take a written assessment at interview (see p4) and www.cam.ac.uk/assessment
- **Colleges Available at all Colleges except Peterhouse:**
- **Location:**
  - Map reference D (see p154-5)
- **Open days 2021:**
  - College open days (arts)
  - Cambridge Open Days – see p152-3

Course outline

The degree allows you to study both human and physical geography, although you can choose to specialise in one of these areas from the second year. You typically have six to eight lectures each week (with associated reading), as well as practicals, laboratory work and field classes.

**Year 1 (Part IA)**

You’re introduced to key themes and issues by studying two core papers:

- People, Place and the Politics of Difference – topics are varied but may include globalisation, cultural geography, sustainable development, historical geography, urbanisation, geopolitics, uneven economies and inequality, health and disease.

For each paper you are assessed at the end of the year. You will also attend a range of lectures and lab classes (both physical and computer based) introducing you to geographical research skills across the subject. These are assessed by means of coursework.

**Year 2 (Part IB)**

All students take a compulsory paper, Living with Global Change, which examines key concepts and current issues in geography, usually based around the theme of geographical risk (the exact focus varies from year to year).

In addition, you can begin to specialise and select three papers from a choice of six. The list below gives examples of the choice that may be offered, but these can change from year to year.

- **Austerity**
  - Development Theories, Policies and Practices
  - Citizenship, Cities and Civil Society
  - Glacial Processes

You also undertake project work involving field, lab and computer skills and techniques. Projects vary according to which papers you choose, but everyone takes a course in quantitative methods.

**Year 3 (Part II)**

You can choose either to specialise further or maintain a balance across the subject as a whole. You select four papers from a choice of 12. These papers are assessed by either written examination or a combination of written examination and coursework, which typically takes the form of an extended essay or laboratory report or poster presentation.

In addition, you normally have three supervisions a fortnight at which you discuss a topic beyond the material given at lectures, usually based on reading, essay writing, preparation of presentations or answering data questions.

- **Related courses:**
  - Education
  - History
  - Human, Social, and Political Sciences
  - Land Economy
  - Natural Sciences
  - Policies and Practices
  - Civil Society
  - Glacial Processes
  - Biological Geographies
  - Environmental Processes and Change

*These papers are assessed by either written examination or a combination of written examination and coursework, which typically takes the form of an extended essay or laboratory report or poster presentation.*

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 year, with analysis during the third year.

You typically have six to eight lectures each week (with associated reading), as well as practicals, laboratory work and field classes.
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.”

Rewan

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"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.”

Rewan
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 will be asked to indicate which language you are interested in studying as part of the application process.

Teaching is provided through lectures, intensive language classes, seminars and College supervisions. You can typically expect around 14 hours of teaching each week, alongside one or two supervisions. You can typically expect around 14 hours of teaching each week, alongside one or two supervisions.

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 lecture 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 (e.g. literature, history, film, art, thought) and history (European, global or intellectual).

Years 3 and 4 (Part II)
Year 3
You spend the third year abroad, studying, teaching or on a work placement, while gaining near-native proficiency in your language. You also complete a project, normally on a topic related to the history 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 (e.g. literature, history, film, thought) and History (covering a variety of periods and parts of the world). You must take at least one from each subject.

Fact file
Duration Four years – BA (Hons) (Year 3 spent abroad)
2020 entry Applications per place: 3 Number accepted: 33
Typical offers require A Level A/A*/A or 40-42 points, with 776 at Higher Level
Other qualifications See p49-50
All Colleges require A Level/A2 grades (for languages to be studied post-A Level)
Some Colleges require A Level/B1 Higher Level History; A Level/B1 Higher Level History, for languages from scratch; evidence of language ability
Admission assessment An interview written assessment (see p41 and www.cam.ac.uk/assessment)
Colleges Available at all Colleges
Location Map reference S (see p154-5)
Open days 2021 See the MLML Faculty website for details
College open days (arts) Cambridge Open Days – see p152-3

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 ten 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 take 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 HIPS) and History Special Subjects and Advanced Topic papers. 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 technology, inequality, poverty, and war in the light of work throughout the degree course.

Fact file
Duration Three years – BA (Hons)
2020 entry Applications per place: 4 Number accepted: 62
Typical offers require A Level A/A*/A or 40-42 points, with 776 at Higher Level
Other qualifications See p49-50
No specific subjects required by all Colleges
Some Colleges require A Level/B1 Higher Level History
Admission assessment Some Colleges require applicants to take a written assessment at interview (see p41 and www.cam.ac.uk/assessment)
Colleges Available at all Colleges
Location Map reference S (see p154-5)
Open days 2021 College open days (arts) Cambridge Open Days – see p152-3

Cambridge Open Days – see p152-3
History of Art at Cambridge
Our course covers a wide spectrum of art and architecture from all over the world, 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.

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.

Teaching is provided through lectures, seminars, supervisions and course trips to museums, exhibitions and notable buildings. First-year students typically have up to six hours of departmental teaching each week, as well as on-site visits and a supervision linked to your weekly reading and essays.

Our prominent graduates include the artists Sir Antony Gormley and Marc Quinn, the model and actress Lily Cole; the television presenter Claudia Winkleman; the Hon James Stourton, former Chairman of Sotheby’s UK; and the museum directors Frances Morris, Director of Tate Modern, Sir Charles Saumarez Smith, former Director of the National Portrait Gallery and the National Gallery and former Chief Executive of the Royal Academy, and Sir Nicholas Serota, former Director of the Tate Gallery and now Chairman of the Arts Council.

Course outline
First-year students typically have up to six hours of departmental teaching each week, as well as on-site visits and a supervision linked to your weekly reading and essays. Particular attention is paid to the first-hand study of works of art and architecture – lectures and classes are regularly held in museums, taught by curatorial staff and other visiting experts – and you receive exceptional attention and support throughout your degree. Assessment varies according to the paper being studied but typically includes written examinations and visual analysis tests (comparing and contrasting works of art or architecture), and a dissertation in both Year 1 and Year 3.

Year 1 (Part I)
Part I provides you with a broad introduction to the history, making and meaning of art and architecture, with special emphasis on the architecture of Cambridge and the collections of the Colleges, the Fitzwilliam Museum and Kettle’s Yard. Topics run from the art of Ancient Egypt to contemporary installation art, major examples of medieval, Renaissance and modern art, as well as the arts and architecture of Asia, Africa and South America. During the year you take a series of compulsory papers. These papers address various aspects of how works of art and buildings are made, used, and play a role in society, as well as the cultural, religious and political contexts of art and architecture. You will also complete a short dissertation of 5,000 words on a work of art or architecture in or around Cambridge.

Year 2 (Part II)
Part II deepens your knowledge and understanding by focusing in greater depth on specific issues. In Part IA, you take one compulsory paper along with two papers on Special Subjects. Approaches to the History of Art and Architecture - this compulsory paper covers the history of the discipline and its critical methodologies from antiquity to the present day. Subjects currently include Italian drawing, art in Tudor England, art and architecture in medieval Italy, British architecture 1750-1830, art in Paris 1750-1815, art and architecture in medieval Jerusalem, Surrealism, contemporary art, and Chinese art. Special Subjects – chosen from a range of up to 10, these papers focus on a particular person, subject or period. Subjects currently include Italian drawing, art in Tudor England, art and architecture in medieval Italy, British architecture 1750-1830, art in Paris 1750-1815, art and architecture in medieval Jerusalem, Surrealism, contemporary art, and Chinese art.

Year 3 (Part III)
In Part III, you take one compulsory paper, two further papers of Special Subjects papers and submit a dissertation. The Display of Art - this compulsory paper explores the ways in which art is collected, displayed and experienced in society. Special Subjects – the options available are as those in Part IA, but you take two subjects that you haven’t studied before. The dissertation is 9,000 words on a topic of your choice, as agreed with your Director of Studies.
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 anthropology address ‘what it is to be human’ by studying social and cultural diversity – how people live, think and relate to each other around the world.
- 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 two libraries and superb teaching resources including the Museum of Archaeology and Anthropology, 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.

Fact file

**Courses**

Human, Social, and Political Sciences

**Fact file**

**Duration** Three years – BA (Hons)

**2020 entry** Applications per place: 5

**Number accepted:** 210

**Typical offers require**

A Level AAA

IB 40-42 points, with 776 at Higher Level

Other qualifications: See p49-50

No specific subjects required by any Colleges

**Useful preparation** A Level/Higher Level

in an essay-based subject

**Admission assessment**

Some Colleges require applicants to take a written assessment at interview (see p41 and www.cam.ac.uk/assessment)

**Colleges**

Available at all Colleges

**Location**

Map references: M. 5 (see p154-5)

**Open days 2021**

College open days (arts) Cambridge open days: – see p152-3

**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.

**Year 1 (Part I)**

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

**Years 2 and 3 (Part II)**

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 Religion, 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**

In 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).

In Year 3, you can 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 from selected 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**

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

In 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**

You take Social Theory, Global Social Problems and Dynamics of Resistance, and either Concepts and Arguments in Sociology or Statistics and Methodology.

Your fourth paper can be a further sociology paper, or one from another HSPS subject, or from another department (see website for full list).

In Year 3, you choose three papers from a range of sociology topics – these might cover subjects such as media and culture; gender; war and revolution, global capitalism; race, racism, and ethnicity; empire, colonialism, and imperialism; health, medicine and society; and criminology. One paper can be replaced by a dissertation of up to 10,000 words. Your final paper can be a further sociology paper, one from another HSPS subject, or borrowed from another department (see website for full list).

**Related courses**

Archaeology 46

Asian and Middle Eastern Studies 51

Geography 78

History 72

History and Politics 75

Psychological and Behavioural Sciences 104

Theology, Religion, and Philosophy of Religion 106

**Other qualifications**

IB 40-42 points, with 776 at Higher Level

**Other qualifications**

A Level AAA

IB 40-42 points, with 776 at Higher Level

Other qualifications: See p49-50

No specific subjects required by any Colleges

**Useful preparation** A Level/Higher Level

in an essay-based subject

**Admission assessment**

Some Colleges require applicants to take a written assessment at interview (see p41 and www.cam.ac.uk/assessment)

**Colleges**

Available at all Colleges

**Location**

Map references: M. 5 (see p154-5)

**Open days 2021**

College open days (arts) Cambridge open days: – see p152-3

**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.

**Year 1 (Part I)**

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

**Years 2 and 3 (Part II)**

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 Religion, 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**

In 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).

In Year 3, you can 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 from selected 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**

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

In 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**

You take Social Theory, Global Social Problems and Dynamics of Resistance, and either Concepts and Arguments in Sociology or Statistics and Methodology.

Your fourth paper can be a further sociology paper, or one from another HSPS subject, or from another department (see website for full list).

In Year 3, you choose three papers from a range of sociology topics – these might cover subjects such as media and culture; gender; war and revolution, global capitalism; race, racism, and ethnicity; empire, colonialism, and imperialism; health, medicine and society; and criminology. One paper can be replaced by a dissertation of up to 10,000 words. Your final paper can be a further sociology paper, one from another HSPS subject, or borrowed from another department (see website for full list).
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 extensive range of computing facilities, including an intranet store of wide-ranging and an extensive range of computing facilities, including an intranet store of wide-ranging.

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 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

Fact file

Duration Three years – BA (Hons)

2020 entry Applications per place: 5

Number accepted: 69

Typical offers require

A Level A*AA

IB 40-42 points, with 7,7,6 at Higher Level

Other qualifications See p149-50

No specific subjects required by any Colleges

Useful preparation Economics, Mathematics

Admission assessment

Pre-interview written assessment (see p41 and www.cam.ac.uk/assessment)

Colleges

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

Location

Map reference F (see p154-5)

Open days 2021

College open days (arts)

Cambridge Open Days – see p162-3

Related courses

Architecture 48

Economics 60

Geography 70

Human, Social, and Political Sciences 78

Law 82

Management Studies 112

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.

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
- The Built Environment
- Environmental Economics and Law
- Fundamentals of Finance and Investment
- The Law of Real Property: Principles, Policy, and Economic
- Implications

Year 2 (Part IB)

In Part II, 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:

- Law and Economics
- Landlord and Tenant Law
- Land, Food and Ecosystem Services
- Land Policy and Development Economics
- Planning Policy and Practice
- Advanced Techniques in Finance and Investment for Real Estate

Year 3 (Part II)

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:

- Law and Economics
- Landlord and Tenant Law
- Land, Food and Ecosystem Services
- Land Policy and Development Economics
- Planning Policy and Practice
- Advanced Techniques in Finance and Investment for Real Estate

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

The choice of topics is very broad and in the past students have written on, for example:

- the economics of gentrification of cities
- environmental protection in the developing world
- Aboriginal land claims in Australia
- risk management in capital and financial markets
- the social perception and problems of population density
- the legal regulation of the property of unmarried couples
- the future prospects of virtual currencies, such as Bitcoin
- the upgrading of slums in Brazil
- road traffic and house prices
- financial institutions in sub-Saharan Africa
- the affordable housing legacy of the London Olympics
- market failure in the housing market

Based on responses to the Graduate Outcomes survey. This records the outcomes of students who completed their studies between August 2017 and July 2018. 63 per cent of Land Economy graduates responded to the survey.
Law at Cambridge allows you to understand law in its historical and social contexts, and to examine its general principles and techniques. It develops skills in analysis, interpretation and logical reasoning, and challenges students to interrogate questions of ethical judgement, political liberty, and social control.

Law at Cambridge

Although our BA (Hons) course (referred to at other universities as an LLB degree) 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 David Williams Building, on the University’s Sidgwick Site, houses lecture theatres, seminar rooms and a moot court. It is also home to the Squire Law Library, one of the finest academic law collections in the UK. The Library offers an extensive collection of printed and electronic resources and excellent computing facilities. The Faculty and University Law Society organise numerous events and activities, including public lectures, careers events and networking opportunities. The Library offers a seminar course, which is assessed by a 12,000 word dissertation. Seminar courses vary each year and are assessed by a combination of coursework and examination.

Student exchange schemes

In previous years, the Faculty has offered students the opportunity to study abroad at any of our partner universities as an LLB degree (referred to at other universities as a Bachelor of Law) 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. Others stay in academia or go into a wide variety of careers in administration, management, finance, politics, media, the charity sector, and the arts.

Course outline

The normal mode of assessment for each paper is a written examination taken at the end of each academic year. One exception is the Legal Skills and Methodology half paper, which is assessed by an extended essay in the third year. You also have the option of taking a seminar course, which is assessed by a 12,000 word dissertation.

Year 1 (Part IA)

In Year 1, all students take the same papers:

- Civil Law I
- Constitutional Law
- Criminal Law
- Law of Tort
- Family Law
- Legal Skills and Methodology

Year 2 (Part IB)

In Year 2, students choose five papers from a wide range of options. Most students take Law of Contract and Land Law. Other options that are generally available are:

- Administrative Law
- Civil Law
- Comparative Law
- Criminal Procedure and Criminal Evidence
- Crimeology, Sentencing and the Penal System
- Family Law
- Human Rights Law
- Jurisprudence
- Legal History
- International Law

Year 3 (Part II)

In the third year, you choose five papers. Most students take Equity and European Union Law. The remaining options can be selected from papers available in Part II B that you have not already studied, as well as a large number of additional options available in Part I only. In recent years, full paper options have included:

- Commercial Law
- Competition Law
- Intellectual Property Law
- Company Law
- Conflict of Laws
- Labour Law
- Civil Procedure
- Landlord and Tenant Law
- Topics in European Legal History
- Historical Foundations of the British Constitution
- Law of Succession
- Personal Information Law
- Topics in Legal and Political Philosophy
- You can also participate in a seminar course, in place of one paper. This course is assessed by an extended essay in the third year. You also have the option of taking a seminar course, which is assessed by a 12,000 word dissertation.

Fact file

Duration Three years – BA (Hons)

2020 entry Applications per place: 6 Number accepted: 262

Typical offers require

A Level A/A/A 18-20 points, with 756 at Higher Level
Other qualifications See p49-50
No specific subjects required by any Colleges

Useful preparation A Level/A2 Higher Level in an essay-based subject

Admission assessment

An interview, written assessment (see p41 and www.cam.ac.uk/assessment)

Colleges Available at all Colleges

Location

Map reference S (see p154-5)

Open days 2021

See the Faculty website for details

College open days (arts)

Cambridge Open Days – see p152-3

Related courses

Human, Social and Political Sciences 78
Management Studies 112
Philosophy 102

Cambridge Open Days – see p152-3

Courses

www.cam.ac.uk/courses

Hands-on experience

Mooting competitions (debates about hypothetical legal cases). You can also take part in a seminar course, in place of one paper, which is assessed by a 12,000 word dissertation.

Cambridge Open Days – see p152-3

I wanted a subject that was very current and up-to-date with the world right now. It's a degree that doesn't pigeonhole you into a career, but actually just opens up doors for you.”

Zara
Linguistics

Language and linguistics

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

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

This variety is one of the things that makes linguistics fascinating: one day you might be poring over a medieval text for evidence of how the grammar of a language has changed, and the next, learning about how the larynx creates sound energy for speech or how a word (ancient or modern) is pronounced, and then exploring the characteristics of individual languages but also exploring properties which all languages share and which offer insight into the human mind.

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.

Linguistics at Cambridge

Cambridge Linguistics is internationally recognised as world-leading, having come fourth in the QS World University Rankings by Subject 2020, 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 and Middle Eastern 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; recent graduates for example have taken up roles at Google, Amazon, Facebook and the Foreign Office, as well as pursuing postgraduate study at top universities in the UK and USA.

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.

“Linguistics is a deeply interesting field of study, with many subfields and connections to lots of other areas. The course has offered me a way into the subject, broad enough to give me an insight into a variety of research traditions but narrow enough to let me truly specialise.”

Harry

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Course outline

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 – focusing on topics including sentence construction, semantics and pragmatics

Year 2 (Part II A)

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

In Part II A, 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

Year 3 (Part II B)

In Part II B, you take:

- Linguistic Theory – a general theory paper

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

Related courses

- Anglo-Saxon, Norse, and Celtic
- Asian and Middle Eastern Studies
- Classics
- Computer Science
- Human, Social, and Political Sciences
- Modern and Medieval Languages
- Philosophy
- Psychological and Behavioural Sciences
- Psychology of Language Processing and Learning
- Computational Linguistics

Admission assessment

At interview, written assessment (see p41) and www.cam.ac.uk/assessment

Colleges

Available at all Colleges except St Catharine’s

Location

Map reference S (see p154-5)

Open days 2021

See MML Faculty website for details

College open days (arts)

Cambridge Open Days – see p152-3

Duration Three years – BA (Hons)

2020 entry

Applications per place: 2
Number accepted: 40

Typical offers require

A Level AAM: 40-42 points, with 776 at Higher Level

Other qualifications

See p49-50

No specific subjects required by any Colleges

Useful preparation

English (Language or Literature), Mathematics, an arts/science mix, a language (ancient or modern)

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.

Fact file

Language and linguistics

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

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

This variety is one of the things that makes linguistics fascinating: one day you might be poring over a medieval text for evidence of how the grammar of a language has changed, and the next, learning about how the larynx creates sound energy for speech or how a word (ancient or modern) is pronounced, and then exploring the characteristics of individual languages but also exploring properties which all languages share and which offer insight into the human mind.

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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 Medalists 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. Around 40 per cent of our students go on to further study1, while others follow a wide variety of careers. Recent graduates include a meteorologist, games designer, biomedical research scientist, sports statistician, journalist, cybersecurity analyst, and an AI research engineer, as well as teachers, actuaries, accountants, IT specialists, financiers and consultants.

STEP
For information about STEP, see p150. 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.

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

Zoe

1Based on responses to the Graduate Outcomes survey. This records the outcomes of students who completed their studies between August 2017 and July 2018. 61 per cent of Mathematics graduates responded to the survey.

Fact file

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

2020 entry
Applications per place: 7
Number accepted: 251

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

Other qualifications
See p149-50

All Colleges require
A Level/IB Higher Level Mathematics, A Level Further Mathematics, STEP (see p150)

Some Colleges require
A Level/IB Higher Level in a science subject; A Level/IB Higher Level Physics for Mathematics with Physics only

Admission assessment
Some Colleges require applicants to take a written assessment at interview (see p41 and www.maths.cam.ac.uk/assessment)

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

Location
Map reference X (see p154-4)

Some Colleges require
A Level/IB Higher Level in a science subject; A Level/IB Higher Level Physics for Mathematics with Physics only

Admission assessment
Some Colleges require applicants to take a written assessment at interview (see p41 and www.maths.cam.ac.uk/assessment)

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

Location
Map reference X (see p154-4)

Open days 2021
See Faculty website for details
College open days (sciences)
Cambridge Open Days – see p152-3

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

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.

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

Mathematics with Physics: for students who may want to study Physics after the first year

You will be asked to indicate which option you wish to take as part of the application process, 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
• waves

There is also a computational projects course:
• number theory
• general relativity
• automata and formal languages

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 II and II, and successful completion leads to a BA with MMath.

See the Faculty website for more details.
Medicine

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.

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 graduates to be thoughtful, skilled members – and leaders – of the medical profession.

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.

UK Foundation Programme and Medical Licensing Assessment (MLA)
Graduates 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.

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.foundationprogramme.nhs.uk. Preparing for Patients continues in your third year, regardless of the subject you choose to study. During this year, you visit community-based and hospital settings to develop your clinical skills.

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

Years 1 and 2
In Years 1 and 2, you study the medically-relevant core scientific knowledge and skills needed as a medical professional. 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.

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

- a non-core science subject, such as Anthropology, Management Studies, History of Medicine or Philosophy
- a single Part I Natural Sciences subject (see p101)

Preparing for Patients continues in your third year regardless of the subject you choose to study. During this year, you visit community-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
- improving health
- core clinical science, pathology and diagnostic reasoning
- evaluation and research
- professionalism and patient safety

You have weekly small group clinical supervisions 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.
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 or equivalent overseas check.
- successful applicants are required to complete a confidential occupational health questionnaire; undertake health screening and will be offered immunisations 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.

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, 95 per cent of applicants for Medicine offered three or more science/mathematics A Levels and, of these, 23 per cent were successful in obtaining a place. Of the four per cent of applicants who offered only two science/mathematics A Levels, just three 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.

Other examination systems
See p149-50 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 or college. Please see the website for details, including the registration deadline.

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 p37) to one of the following Colleges, Lucy Cavendish, St Edmund’s or Wolfson Colleges, with:

- a good Honours degree (2.1 or above) in any discipline.
- passes at A Level (or equivalent), as above.

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. Please check the website for eligibility restrictions.

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.

In addition to the Standard Course, we also offer the Graduate Course in Medicine. Open to graduates of any discipline (see opposite for entry requirements and check the website for eligibility restrictions), successful completion of the accelerated Graduate Course leads to the MB, BChir degrees in four years.

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

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

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

Fact file

<table>
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<tr>
<th>Duration</th>
<th>Four years – MB, BChir</th>
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<tbody>
<tr>
<td>2020 entry</td>
<td>Applications per place: 13</td>
</tr>
<tr>
<td>Colleges</td>
<td>Graduate Course available: Hughes Hall, Lucy Cavendish, St Edmund’s and Wolfson only</td>
</tr>
<tr>
<td>Open days 2021</td>
<td>Please check the websites of participating Colleges in summer 2021 for open day dates and further information.</td>
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</table>

 Cambridge Open Days – see p152-3
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 2021, Cambridge came second 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
Most graduates use their languages in their work, and all during their year abroad. Cross-cultural awareness our graduates have gained particularly value the experience, independence and 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 – usually after further specialised training. For further information on what our graduates go on to do, see: www.mmll.cam.ac.uk/applying/careers.

Fact file

Duration Four years - BA (Hons) (Year 3 spent abroad)
2020 entry Applications per place: 2
Number accepted: 187
Typical offers require
A Level/A* A* 40-42 points, with 767 at Higher Level
Other qualifications: See p419-50
All Colleges require
A Level/B/ Higher Level in at least one of the languages you want to study
College Open days - see p152-3

Related courses
Anglo-Saxon, Norse, and Celtic 44
Asian and Middle Eastern Studies 51
Classics 56
English 68
History 72
Linguistics 84

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.

Year 1 (Part IA)
You study two languages, at least one at post-A Level/B/ Higher Level standard. You will be asked to indicate which languages you are interested in studying as part of the application process. 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
- film
- art
You have the option to replace one exam with coursework in the second year.

Year 2 (Part IB)
In your second year, you take five papers in total. You continue intensive language study with the aim of acquiring native or near-native fluency as literature, linguistics, thought, history, politics, film etc in one or two of your languages. You also take an introductory paper in which you explore three or more of the following topics:
- literature
- linguistics
- history
- thought
- film
- art
- an introduction to a language and culture you haven’t studied before
You're assessed at the end of each year, primarily through written and oral examinations, and the submission of an extended translation or research project at the end of Year 3. You may also offer a second dissertation instead of one of the Part II written examination papers.

Year 3 and 4 (Part II)
Year 3
In the third year, you spend at least eight months abroad, during which time you prepare a project that counts as one sixth of your final mark. This can be a dissertation (extended research project), a translation project or a linguistics project.
Just before the fourth year starts, you take an oral examination back in Cambridge.

Year 4
You take five further 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 on 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 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, Emlyn 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 Delta 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)
- a 24-hour practice room
- music computing laboratories
- a professional concert hall (seating 500)
- a professional recording studio
- a purpose-built recording studio
- music computing laboratories

Students can borrow period instruments and make use of 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 Tom Poster, Royal Harpist Anne Denholm, composer Cheryl Frances-Hoad, jazz musician Misha Mullov-Abbado, and record producer and audio engineer Myles Eastwood.

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.

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 examination, 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 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

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 music and media
- ethnomusicology
- 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 10,000-15,000 words
- composition
- Beethoven: the Late String Quartets
- Musical Counter-Cultures of the 1960s

- notation
- keyboard skills
- music and science

- performance studies (including recital) composition
- a dissertation of 5,000-7,000 words

- Exploring Music Psychology
- Parisson Polyphony
- Music, Nationalism and Politics in Spain
- Brahms's Ein Deutches Requiem
- Decolonising the Ear

Fact file

Duration Three years – BA (Hons)

2020 entry Applications per place: 2
Number accepted: 70

Typical offers require
A Level A**A
IB 40-42 points, with 7/6 at Higher Level
Other qualifications See p49-50

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 p41 and www.cam.ac.uk/admissions)

Colleges Available at all Colleges

Location
Map reference S (see p154.5)

Open days 2021
College open days (arts)
Cambridge Open Days – see p152.3

Related courses
Music
History
Philosophy
History of Art
Psychology
Human, Social, and Political Sciences
Philosophy
Psychological and Behavioural Sciences

"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
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
Entry requirements for Natural Sciences

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

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

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

A Levels
Most students have at least three science/mathematics A Levels and having left 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 as your mathematics subject in Year 1 (see right).

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

Other qualifications
See p149-50 and consult any Admissions Tutor for further advice.

Subject requirements for Year 1 options

Biology of Cells:
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 AS/A Level Mathematics

Earth Sciences:
Essential A Levels in at least two science subjects
Note: No previous subject knowledge necessary

Evolution and Behaviour:
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 AS/A Level Further Mathematics

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

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

Course overview

Natural Sciences allows you to experience new areas of science, discover the interconnections between apparently discrete subjects, and gain an insight into different scientific methods. Please note that some subjects have essential or desirable subject requirements in order for students to be allowed to take them.

Year 1 (Part IA)
You choose three science subjects from a wide range, covering:
- Biology of Cells
- Chemistry
- Evolution and Behaviour
You will also study one mathematics option focusing on techniques in either the Physical or Biological Sciences.

Year 2 (Part IB)
You choose a combination of three subjects, drawn from the following areas:
- Animal Diversity
- Biochemistry
- Cell Biology
- Chemistry A: Physical & Theoretical Chemistry
- Chemistry B: Organic & Inorganic Chemistry
- Conservation
- Earth Sciences: A: Earth Surface Environment Sciences
- Earth Sciences B: Earth Subsurface Process Sciences
- Ecology
- Evolution
- Genetics
- History and Philosophy of Science
- Materials Science: Mathematics
- Materials Science: Microbiology
- Molecular Biology
- Neurobiology
- Pathology
- Pharmacology
- Physics
- Physics A: Waves, Quantum Mechanics, Condensed Matter Physics
- Physics B: Dynamics, Electromagnetism, Thermodynamics
- Physiology
- Plant Sciences
- Psychology

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:
- Astrophysics¹
- Biochemistry¹
- Chemistry¹
- Earth Sciences¹
- Genetics
- History and Philosophy of Science¹
- Materials Science¹
- Neuroscience
- Pathology
- Pharmacology
- Physics¹
- 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).

¹ These subjects offer a fourth year/Part III option, leading to an MSci degree.

Fact file

Duration
Three years – BA (Hons)
Four years (some subjects) – MSci

2020 entry
Applications per place: 4
Number accepted: 638

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

Other qualifications
See p149-50
See box on the left for subject requirements

Admission assessment
Pre-interview written assessment (see p41 and www.cam.ac.uk/assessment)

Colleges
Available at all Colleges

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

Open days 2021
College open days (dates)
Cambridge Open Days – see p152-3

Related courses
Chemical Engineering 54
Engineering 65
Geography 78
Mathematics 86
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.

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

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

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

Teaching and learning
Our approach emphasises the values of the analytic school: rigour, clarity and independent thought. But its content extends well beyond the analytic tradition and its main preoccupations. For instance, we currently offer papers on Greek and Roman, and early modern philosophy, as well as political philosophy and aesthetics. You don’t need to have studied philosophy previously, but we do recommend you do some preliminary reading (see the Faculty website for suggestions).

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

Year 1 (Part IA)
The course is designed to accommodate the many students studying philosophy for the first time. In the first year, you acquire the reasoning skills that enable you to tackle philosophical problems and to think intelligently about abstract questions generally, not just gather information about what said what. Therefore, you’re encouraged to approach topics in your own way and we organise regular discussion groups for first- and second-year students.

Part IA gives you an introduction to philosophy through the study of five core compulsory papers:
- Metaphysics
- Ethics
- Political Philosophy
- Naming
- Formal Methods, a half paper on philosophical methods

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

Year 2 (Part IB)
Year 2 and 3 focus on areas that particularly interest you. Part IB is about exploring the philosophical aspects of a range of issues, both practical and theoretical. There are two compulsory papers – Knowledge, Language and the World, and a general paper – and you choose three further subjects from:
- History of Analytic Philosophy
- Greek and Roman Philosophy (from Classics)
- Early Modern Philosophy
- Epistemology and Metaphysics of Science
- Political Philosophy
- Experimental Philosophy (from Natural Sciences, involving practical work)

Year 3 (Part II)
Our objective in Part II is to provide you with an understanding of various contemporary debates and to familiarise you with current philosophical concepts. Lectures explore current and new positions on debates and you participate in seminar discussions on advanced subjects.

There are no compulsory papers and you choose four from an extensive range of subjects. These include most of those mentioned above, studied at a more advanced level, as well as several papers covering new areas. Papers recently available include:
- Philosophy of Mind
- European Philosophy from Kant
- Mathematical Logic
- Aesthetics
- Philosophy in the Long Middle Ages

It’s also possible to take one or two papers from some other courses, such as Classics.

Assessment is predominantly by written examinations. However, in Parts IB and II, one written examination can be substituted with two extended essays of 3,000-4,000 words. Part III offers the additional alternative of submitting a dissertation of 6,000-8,000 words on a subject of your choice.
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, 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. Subject societies and seminar programmes offer regular talks from guest speakers too.

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

Professional accreditation and careers

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

Many students continue with further study and research, and graduates are eligible for admission to professional courses in clinical, educational, forensic or applied psychology. 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.

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. Some of our former students have gone on to work in destinations as varied as global communications firm Edelman, the Child and Adolescent Mental Health Service, the Cabinet Office, and Arsenal Football Club.

Fact file

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<tr>
<th>Duration</th>
<th>Three years — BA (Hons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020 entry</td>
<td>Applications per place: 6</td>
</tr>
<tr>
<td>Number accepted: 96</td>
<td></td>
</tr>
<tr>
<td>Typical offers require</td>
<td>A Level AAB, with 316 at Higher Level</td>
</tr>
<tr>
<td>Other qualifications: AAB</td>
<td>No specific subjects required by all Colleges</td>
</tr>
<tr>
<td>Some Colleges require</td>
<td>A Level/H8 Higher Levels in one or two science/mathematics subjects</td>
</tr>
<tr>
<td>Admission assessment</td>
<td>Some Colleges require applicants to take a written assessment at interview (see p41 and <a href="http://www.cam.ac.uk/assessment">www.cam.ac.uk/assessment</a>)</td>
</tr>
<tr>
<td>Colleges</td>
<td>Available at all Colleges except Peterhouse</td>
</tr>
<tr>
<td>Location</td>
<td>Map references D, M (see p154-5)</td>
</tr>
<tr>
<td>Open days 2021</td>
<td>College open days (sciences)</td>
</tr>
<tr>
<td></td>
<td>Cambridge Open Days — see p152-3</td>
</tr>
</tbody>
</table>

Course outline

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

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

Year 1 (Part IA)

In Part IA, you take a total of four papers, two of which are compulsory:

- Introduction to Psychology
- Psychological Enquiry and Methods (this includes practical demonstrations and exercises)

The remaining two papers are chosen from a selection of around nine options. The optional papers available each year may vary but subjects include:

- biological and social anthropology
- philosophy
- sociology

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

Year 2 (Part IB)

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

You take four papers in total. All students take:

- the Social and Developmental Psychology paper
- the Cognitive Neuroscience and Experimental Psychology paper, which teaches research methods and includes laboratory work
- two optional papers

The optional papers are selected from a broad range. The subjects may change from year to year but typically include papers in:

- biological and social anthropology
- history and philosophy of science
- sociology
- philosophy
- neuroscience

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

Year 3 (Part II)

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

The 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 IB

“...The PBS course offered me the opportunity to develop my long-standing interest in psychology under the direction of the world’s best academics, while also viewing human behaviour through the lens of related disciplines. The depth and breadth of the course is unparalleled.”

Leigh
Theology, Religion, and Philosophy of Religion

This uniquely personalised degree allows you to explore contemporary and historic thought, culture and texts through philosophy, ethics, history, literature, languages, social sciences and classics.

Inter-disciplinary, supportive, outstanding

Worldwide, six out of seven people describe themselves as religious, with religious beliefs driving social and political change globally. As a graduate of our Faculty, you will be well equipped to play an important part in this world, valued for your intercultural literacy, critical thinking, research skills and understanding of the depth and nuance of human experience.

Theology, Religion, and Philosophy of Religion at Cambridge addresses fundamental questions through a variety 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.

World-class resources

We offer outstanding teaching and a supportive, friendly faculty of experts. You will have access to the latest research and historic resources both within the Faculty, and across the Colleges and University, including, for example, the Codex Bezae (an important early version of the New Testament), the Genizah collection (a globally significant source for medieval Judaism) and the vast collection of artefacts in the Fitzwilliam Museum.

Excellent career prospects

Our course equips students with skills valued across a wide range of professions, with graduates of the Faculty enjoying successful careers in the civil service, law, international development, the arts, banking, investment, teaching, the media and communications. A considerable proportion of our students develop a life-long love of learning and research, and continue to further study in theology and related disciplines.

Fact file

Courses

- **Fact file**
  - **Duration**: Three years – BA (Hons)
  - **2020 entry** Applications per place: 2
  - **Number accepted**: 55
  - **Typical offers**
    - **A Level MMA**
      - BB at Higher Level
    - **IB**
      - 37 points
    - **Other qualifications** See p49-50
  - **No specific subjects required by any Colleges**
  - **Admission assessment**
    - At-interview written assessment (see p49 and www.cam.ac.uk/assessment)

- **Colleges Available at all Colleges except Churchill**
  - **Location**
    - Map reference 5 (see p134-35)
  - **Open days 2021**
    - See Faculty website for details
  - **College open days (arts)**
    - Cambridge Open Days – see p132-3

- **Related courses**
  - **Asian and Middle Eastern Studies** 51
    - **Classics** 56
    - **English** 68
    - **History** 72
    - **History of Art** 76
    - **Human, Social, and Political Sciences** 78
    - **Philosophy** 102

- **Assessment**
  - 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.
  - The course is designed to accommodate students studying religion for the first time. You choose:
    - a paper in biblical studies, either David Israel's Greatest Hero or Jesus and the Origins of the Gospel (you can take the other in place of one of the choices below)
  - 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
    - Understanding Contemporary Religion – an introduction to the sociological study of religion
    - The Question of God – exploring some of the major themes of Christian theology
    - Religious Hinduism and Buddhist Ethics – these last two papers introduce key questions in philosophy of religion and Ethics, ranging from antiquity to contemporary controversies
  - You can also choose to take the Part IA Meaning paper from the Philosophy course, which will be taught alongside Philosophy students.

- **Year 2 (Part II)**
  - 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 and you are able to follow a joint track with Social Anthropology if you wish. You choose four papers out of around 17, currently including:
    - Introduction to Islam
    - Ethics and Faith
    - Philosophy of Religion; and
    - Life and Thought of Religious Hinduism and Buddhism
    - The Johannine Tradition
    - Freedom and the Soul
    - Symbolism of the New Testament
    - Philosophy of Religion God, Freedom and the Soul
    - The Johannine Tradition
    - Life and Thought of Religious Hinduism and Buddhism
    - Philosophy of Religion God, Freedom and the Soul
    - Symbolism of the New Testament
    - Philosophy of Religion God, Freedom and the Soul
    - Symbolism of the New Testament
    - Philosophy of Religion God, Freedom and the Soul
  - 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 III)**
  - 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
    - Philosophy, Ethics and the Other
    - Self and Salvation in Indian and Western Thought
    - New Testament Christology
    - Judaism and Hellenism
    - 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.

Veterinary Medicine at Cambridge

The Department of Veterinary Medicine has an international reputation as a centre of excellence, and is performing world class veterinary research.

A major strength of the Cambridge course is the extensive use of practical teaching and the emphasis on small-group teaching 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, active ambulatory farm animal and equine units, a diagnostic unit, a superb 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.

Selection

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

- trainee veterinary surgeons must satisfy the Royal College of Veterinary Surgeons’ fitness to practise requirements,
- passes at A Level (or equivalent), as above
- a good Honours degree (2.1 or above, science subjects are desirable)
- passes at A Level (or equivalent), as above

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 or the Director of Teaching at the Department of Veterinary Medicine as early as possible to discuss your particular situation and the course requirements. Such disclosures are considered independently of your academic qualifications and the interview process.

Careers

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

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 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 p149-50 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 p41 and www.cam.ac.uk/assessment)
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.

You can read more about Years 1 and 2 online at: www.biology.cam.ac.uk/undergrads/VetST.

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

Years 1 and 2 are the ‘science foundations’ phase of the veterinary programme in which 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 a 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

In this ‘science phase’ of the veterinary programme, 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 p101)
- Part II Biological and Biomedical Sciences (see p101)

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 and 5 represent the ‘clinical phase’ of the veterinary curriculum. The curriculum has been redesigned to be delivered in species-based courses with some aspects delivered as discipline-related subjects, and includes the following topics:

- Principles of clinical practice – surgery, anaesthesia, radiography and radiology, clinical pharmacology, and therapeutics, oncology
- Principles of infectious diseases
- Clinical pathology – animal breeding, including infertility and obstetrics
- Equine medicine and surgery
- Small ruminant medicine and surgery
- Pig medicine
- Poultry management and medicine
- Equine medicine and surgery
- Small animal medicine
- Small animal soft tissue and orthopaedic surgery
- Husbandry, management, medicine and surgery of other companion animal species (including rabbits, rodents, reptiles and birds)
- Veterinary public health
- Respiratory system diseases
- Communication skills
- Practice management and professional behaviours
- Practical clinical skills

Within the clinical phase, two mornings each week are given over to practical clinical work including basic clinical examination of the main domestic species, radiography, post-mortem investigation and visits to external establishments such as the University-affiliated RCPCA clinic where you actively participate in delivering morning clinic consultations. You also develop a range of technical and practice-related skills in the Clinical Skills Hub. Self-study time gives opportunities to further hone your consultation and practical skills in the Clinical Skills Hub.

Part II of the Final Veterinary Examination tests your understanding of principles and concepts of veterinary medicine, as well as your ability to integrate information across the Part I series of subjects.

Year 6

This is the ‘professional phase’ of the veterinary programme. It 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 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.

Subjects covered during the year include:

- Small animal surgery (soft tissue and orthopaedic surgery)
- Small animal medicine (including oncology, neurology, clinical pathology and 1st opinion practice rotations)
- Equine studies
- Farm animal studies
- Anaesthesia
- Out-of-hours care
- Diagnostic imaging

Finally, you have a period of eight weeks’ self-selected study composed of a clinically-based VetMB Research Project, in which you explore an area of special interest, and ‘tracking’ period with more advanced consideration of an area of your interest.

During the year, marks awarded in continuous assessment count towards Part II of the Final Veterinary Examination, which is examined in May of the final year.

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

A management environment
No undergraduate business degree by itself can teach someone how to be a competent manager; that comes with experience and then further education. What Management Studies enables you to do is to study the subjects relevant to management and the environment in which the manager operates, whilst still a full-time student.

You develop a sound understanding of the fundamentals of management and various aspects of management practice, as well as gain practical experience in a real-life context.

You acquire the skills that a good manager needs, including the ability to apply critical analysis to management issues and an awareness of the responsibilities of managers in an economic, social and environmental context.

A stimulating environment
The 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:
- economics of firms and markets
- finance and accounting
- marketing
- operations management
- organisational behaviour
- quantitative methods

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.

Fact file
Duration One year
Entry requirements
Competitive entry after two or three years of another Cambridge course
Places available: 50
Location
Map reference J (see p154-5)

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.

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.

Fact file
Duration Two years
Entry requirements
Competitive entry after successful completion of Engineering Part I (see p67) or Chemical Engineering Part I (see p158)
Applications from other science students may be considered
Places available: 40
Location
Map reference W (see p154-5)