Which course is right for me?

We are looking for students of all abilities in a field of mathematics; these are the skills needed for reasoning with the specific functionality and applications of programs and computer systems. The skills in animating and manipulating data, software verification, and software engineering are also relevant.

Computer Science

To succeed in a Computer Science course, you will need a curiosity about how things work, and the ability to analyse the problems creatively. Computer Science at Oxford starts with the fundamentals of computer and software science, and then goes on to include a wide range of subjects, such as databases, algorithms, and software engineering. The department is home to a range of expert lecturers and tutors, and a variety of industry speakers.

Mathematics and Computer Science

The Mathematics and Computer Science degree offers you the chance to combine Computer Science with advanced study in pure mathematics, applied mathematics, or in the deeper aspects of data science. The department is split into two University faculties. Both faculties can be split into two separate faculties, both having access to a wide range of lecture topics and individual students.

Computer Science and Philosophy

The Computer Science and Philosophy degree allows you to study fascinating topics that are both intellectually exciting and create right from the start. In Computer Science through the design of computer systems and Internet services, through the working of arguments and computers and in the study of the mind. The two subjects complement each other, helping you to understand logical concepts, their applications, and the importance of logic, language, and reality.

What is the role of the college?

Each college offers a range of activities, both academic and social, to help create a friendly and supportive atmosphere. We have an excellent record for teaching and learning, and a variety of social activities. The University of Oxford has more studentengagement opportunities.

Oxford is one of the largest-established Computer Science departments in the country. It is home to world-class research and teaching. Research activities encompass core Computer Science, including computational biology, quantum computing, AI and machine learning, cyber-physical systems, data and information science, software verification, and software engineering.

Why Computer Science at Oxford?

High academic reputation: Oxford is one of the leading institutions for Computer Science in the world. Oxford has one of the longest-established Computer Science departments in The Times Higher Education 2021 World University Rankings.

Friendly and supportive atmosphere: The department is in the heart of our small city, so you can easily get to know your fellow students. The Careers Service and the University’s entrepreneurship centre support students as well as alumni.

Free coffee, relax, catch up on your email or discuss with your friends. There’s an undergraduate social area in every college. You can choose to apply to a specific college, or to make an open application. If you apply to a specific college, you will have access to a wide range of facilities for students and staff. Your college will be your home for much of your time at Oxford. Your college will act as a social hub.

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How are the courses structured?

We offer a wide range of undergraduate options to suit your interests and career aspirations. Our courses are designed to provide you with a broad knowledge of the field and leave you well-equipped for a career in industry or academia.

For further details on course content, and options visit: www.oucs.ox.ac.uk/undergraduatecourses

Example 4th year

Intro to Logic
Elements of Deductive Logic
Philosophy of Mathematics
Philosophical Logic
Mathematics Advanced Options

Probabilistic Theorems
Elliptic Curves
Combinatorics
Algebraic Topology

3rd year, Computer Science and Philosophy

Intro to Logic
Elements of Deductive Logic
Philosophy of Mathematics
Philosophical Logic
Mathematics Advanced Options

Probabilistic Theorems
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2nd year, Computer Science and Philosophy

Intro to Logic
Elements of Deductive Logic
Philosophy of Mathematics
Philosophical Logic
Mathematics Advanced Options

Probabilistic Theorems
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Algebraic Topology

1st year, Computer Science and Philosophy

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Philosophy of Mathematics
Philosophical Logic
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This course is subject to validation and may change. This information is intended as a general, rough guide. A full list of current options is available on the course website.

For the third year, you will have access to the following courses to choose from in one subject: in the third year, you can choose to apply to a specific college, or to make an open application. If you apply to a specific college, you will have access to a wide range of facilities for students and staff. Your college will be your home for much of your time at Oxford. Your college will act as a social hub.
How will I be taught?
Our courses concentrate on creating class between theory and practice. You will also gain practical problem-solving and project design skills. The majority of subjects within the Computer Science element of our degrees and all practical work is conducted in modern teaching facilities.

Tutorials: normally consist of a one hour meeting regularly between a tutor and three or four students. They are timetabled in college, and are an opportunity for you to spend time discussing some aspect of your Computer Science course. In your first year, you will have tutorials to discuss problems, and in your later years your tutorials will mainly be to work on projects.

Lectures: bring together students from all colleges to hear about some aspect of Computer Science, often from an external expert. Tutorials take a much more personal aspect of that part of the subject. Our students typically attend to meet in small classes with a tutor.

Practicals: give you an opportunity to work on real problems that reflect the principles you have learned, and an opportunity to work with other students and computer programming equipment. One week you might be creating computer graphics, and another week working on a project that involves writing a program using a language tailored to the hardware of a handheld computer. You might work socially in college lab groups.

Problem classes: in your first year of the course you will also sit two to four small classes for the specified topics that you will be studying in your degree. These small classes are taught by people with specialist knowledge in the topic.

Project work: you will have the opportunity to make a real small project with a college supervisor. You will then complete your project during the Christmas or Easter vacation.

How do I apply?

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More than just a degree...
The city of dreaming spires. Oxford is famous the world over for its university, heritage buildings and its leading cosmopolitan place. Its rich academic and publishing life, and a heritage of literature that is not just within the walls of every college, Oxford and London and Belfast built some of the greatest people in the world in large public transport.

Oxford provides excellent facilities for sport at all levels, from easy to extremely sported. There will also be an opportunity to join one of the college teams. There will also be an opportunity to join one of the college teams. Occasionally, there will be a place for you in one of your college teams.

The University of Oxford offers on successful opportunities to get involved in activities outside the curriculum of your subject. From music and social activities, political and cultural groups, most students have one or more passions that they pursue with others, whether with other students from other colleges. At night, Oxford is very short, but somewhere you will find the time to fill it.

After you graduate
Oxford University Computer Science graduates are extremely sought after, gaining a median salary of £65,000 at five years post graduation.

"Though our degrees don’t include an industrial placement, we have strong links with industry and a reputation for readiness that will put you in a strong position to secure a graduate job and in a rewarding career after you leave us."

All of our degree allow you to enter into technical, managerial, academic, research or commercial paths, both in the UK and abroad. In recent years, our graduates have progressed to careers in many fields that need an understanding of computer systems, what such systems can (and cannot) do, and how to design them.

Recent employers of our graduates include IBM, Google, Microsoft, Hitachi Technologies, Cisco, Morgan Stanley, and Goldman Sachs, with pubs such as car service engineers and developers, analysts, chef technology officers, game developers, or web developers. We have also seen students going into teaching, government and policy organisations, management consultancy, and business. Others have continued at the MPhil and academic research careers, or started up their own companies.

Visit the Computer Science admissions website for detailed information on course content, student support, applications, and frequently asked questions: www.cs.ox.ac.uk/undergradtures

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