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## Engineering Science Course Information Sheet for entry in 2024

Engineering Science encompasses a vast range of subjects, from microelectronics to offshore oil platforms. The course involves the application of creative reasoning, science, mathematics (and, of course, experience and common sense) to real problems.

The Department of Engineering Science at Oxford has a top-level quality assessment rating for teaching and a world-class reputation for research.

We believe that future engineering innovation will benefit from broad foundations as well as specialised knowledge. Because of this, undergraduate teaching is based on a unified course in Engineering Science, which integrates study of the subject across the traditional boundaries of engineering disciplines. Links between topics - in apparently diverse fields of engineering - provide well-structured fundamental understanding, and can be exploited to give efficient teaching.

The Engineering Science programme is a four-year course, leading to the degree of Master of Engineering. The first two years are devoted to topics that we believe all Engineering undergraduates should study.

In the third and fourth years there is scope for specialisation into one of six branches of engineering:

- Biomedical
- Chemical
- Civil
- Electrical
- Information
- Mechanical.

Decisions about which of these will be your specialisation can be deferred until the third year.

The course is accredited every four years by the major engineering institutions. The accreditation is in respect of the initial requirements for the designation of 'chartered engineer'.

Industrial experience is an extremely important adjunct to an academic engineering education, and undergraduates are strongly encouraged to obtain it. One way to do so is by being sponsored. Further information is generally available through your careers teacher, or from the engineering institutions. If your sponsoring company wants you to spend a year with them before university, you will be asked to declare this at your interview and in your UCAS application.

### A typical week

As a guide, in an average week you will have approximately ten lectures and two college tutorials or classes. In some weeks in the first two years you will also have up to five hours of practical work.

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In the third year each student spends an average of one day a week on their group project work. The individual project in the fourth year takes approximately two and a half days a week.

Class and tutorial group sizes are designed to allow students to discuss the contents of specific lectures with a tutor and their peers. In the first two years tutorials are delivered in colleges, typically in groups of 2-4 students. In the third year the department organises tutorials for groups of up to 4 students. In the final year class sizes vary, but there are no more than 15 students per class.

Lectures are delivered by the academic staff of the department, who are experts in their areas of research and typically have years of teaching experience. Tutorials and classes are delivered by a tutor, who might be a member of the academic staff, a postgraduate student – studying at doctoral level – or a postdoctoral research assistant within the department. Practical laboratory sessions are supervised by experienced academics and technical staff.

To find out more about how our teaching year is structured, visit our [Academic Year](#) page.

The options listed above are illustrative and may change. More information about current options is available on the [Engineering Science website](#).

## Course structure

YEAR 1	
<b>COURSES</b> <ul style="list-style-type: none"><li>• Mathematics</li><li>• Electrical and information engineering</li><li>• Structures and mechanics</li><li>• Energy</li><li>• Engineering practical work</li></ul>	<b>ASSESSMENT</b> <p>First University examinations: four written papers; Assessment of Engineering practical work</p>

YEAR 2	
<b>COURSES</b> <ul style="list-style-type: none"><li>• Mathematics</li><li>• Electrical and information engineering</li><li>• Structures, materials and dynamics</li><li>• Energy systems</li><li>• Engineering practical work</li></ul>	<b>ASSESSMENT</b> <p>Final University examinations, Part A: four written papers; Assessment of Engineering practical work</p>

YEAR 3	
<p><b>COURSES</b></p> <ul style="list-style-type: none"> <li>• Five optional Engineering courses</li> <li>• Engineering in society</li> <li>• Engineering computation</li> <li>• Engineering practical work</li> <li>• Group design project</li> </ul>	<p><b>ASSESSMENT</b></p> <p>Final University examinations, Part B: six written papers; Assessment of Engineering practical work; Project reports (Engineering computation and design Project)</p>

YEAR 4	
<p><b>RESEARCH</b></p> <p>A major project, plus six specialist courses chosen from within the areas of:</p> <ul style="list-style-type: none"> <li>• Biomedical engineering</li> <li>• Chemical engineering</li> <li>• Civil engineering</li> <li>• Electrical engineering</li> <li>• Engineering mathematics</li> <li>• Information engineering</li> <li>• Mechanical engineering</li> <li>• Production engineering</li> </ul>	<p><b>ASSESSMENT</b></p> <p>Final University examinations, Part C: six written papers; Project report</p>

The University will seek to deliver this course in accordance with the description set out above. However, there may be situations in which it is desirable or necessary for the University to make changes in course provision, either before or after registration. For further information, please see the University's [Terms and Conditions](#).

### Fees

These annual fees are for full-time students who begin this undergraduate course here in 2024.

Information about how much fees and other costs may increase is set out in the University's Terms and Conditions.

Please note that while the University sets out its annual fees as a single figure, this is a combined figure for both your University and college fees. More information is provided in your [Terms and Conditions](#).

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Fee status	Annual Course fees
Home (UK, Republic of Ireland, Channel Islands & Isle of Man)	£9,250
Overseas (including most EU students – see Note below)	£48,620

**Note:** Irish nationals living in the UK or Ireland, EU, other EEA, and Swiss nationals who have been granted settled or pre-settled status in the UK under the EU settlement scheme are eligible for 'Home fee' status and student loan support, subject to meeting residency requirements. We will contact you directly if we need further information from you to determine your fee status.

Please refer to the [Undergraduate fee status](#) pages for more information.

### Living costs

Living costs for the academic year starting in 2024 are estimated to be between £1,345 and £1,955 for each month you are in Oxford. Our academic year is made up of three eight-week terms, so you would not usually need to be in Oxford for much more than six months of the year but may wish to budget over a nine-month period to ensure you also have sufficient funds during the holidays to meet essential costs. For further details please visit our [living costs webpage](#).

### Living costs breakdown

	Per month		Total for 9 months	
	Lower range	Upper range	Lower range	Upper range
Food	£315	£495	£2,835	£4,455
Accommodation (including utilities)	£745	£925	£6,705	£8,325
Personal items	£190	£320	£1,710	£2,880
Social activities	£40	£95	£360	£855
Study costs	£35	£85	£315	£765
Other	£20	£35	£180	£315
<b>Total</b>	<b>£1,345</b>	<b>£1,955</b>	<b>£12,105</b>	<b>£17,595</b>

In order to provide these likely living costs (which are rounded to the nearest £5), the University and the Oxford SU conducted a living costs survey to complement existing student expenditure data from a variety of sources, including the UK government's Student Income and Expenditure Survey and the National Union of Students (NUS).

The current economic climate and high national rate of inflation make it very hard to estimate potential changes to the cost of living over the next few years. When planning your finances for any future years of study in Oxford beyond 2024-25, it is suggested that you allow for potential increases in living expenses of around 5% each year – although this rate may vary depending on the national economic situation. UK inflationary increases will be kept under review and the [living costs webpage](#) updated.

### Additional Fees and Charges Information for Engineering Science

There are no compulsory costs for this course beyond the fees shown above and your living costs.