

## Engineering Science Information Sheet for entry in 2021

Engineering Science encompasses a vast range of subjects, from microelectronics to offshore oil platforms, and 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. Because we believe that future engineering innovation will benefit from broad foundations as well as specialised knowledge, 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 which 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 and 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 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. 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.

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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 doctorate 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.

**Course structure**

YEAR 1	
<p><b>COURSES</b></p> <ul style="list-style-type: none"> <li>• Mathematics</li> <li>• Electrical and information engineering</li> <li>• Structures and mechanics</li> <li>• Energy and the environment</li> <li>• Engineering practical work</li> </ul>	<p><b>ASSESSMENT</b></p> <p>First University examinations: four written papers; Assessment of Engineering practical work.</p>
YEAR 2	
<p><b>COURSES</b></p> <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>	<p><b>ASSESSMENT</b></p> <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>COURSES</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>
<p><i>The options listed above are illustrative and may change. More information about current options is available on the <a href="#">Engineering Department's website</a>.</i></p>	

The University will seek to deliver each course in accordance with the descriptions set out above. However, there may be situations in which it is desirable or necessary for the

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University to make changes in course provision, either before or after registration. For further information, please see the [University's Terms and Conditions](#).

### Teaching delivery

At the time of writing course information sheets for 2021/22 entry, the COVID-19 pandemic was still impacting the University. A range of measures have been put in place to comply with Government legislation and guidance in response to the pandemic, and to help keep students, staff and the wider community safe.

Inevitably, some changes have been necessary to teaching and student services during the pandemic (for example, a greater amount of online teaching and examinations, and restrictions on numbers allowed to access facilities at one time).

Whatever the circumstances in the 2021/22 academic year, the University will deliver core services and learning outcomes for each course, even though the modes of delivery may change.

All course information sheets should be read in that context, and we will keep offer holders and students regularly informed if circumstances change. Further details are available on our [website](#) and within the [Student Terms and Conditions](#).

### Fees

These annual fees are for full-time students who begin this undergraduate course here in 2021.

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](#).

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)	£37,510

**Note:** Following the UK's departure from the EU, most EU students starting a course in 2021/22 will no longer be eligible to pay fees at the 'Home' rate and will instead be charged the higher 'Overseas' rate. This change will not apply to Irish nationals living in the UK or Ireland, who will continue to be charged fees at the 'Home' rate for the duration of their course.

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The government has issued guidance stating that EU, other EEA, and Swiss nationals who have been granted settled or pre-settled status in the UK under the EU settlement scheme may be eligible for 'Home fee' status and student loan support, subject to meeting residency requirements. However, until the government formally updates its fee status regulations the University is unable to confirm fee statuses for students who may qualify on this basis. We will contact you directly if we need further information from you to determine your fee status.

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

### Living costs

Your living costs will vary significantly dependent on your lifestyle. These are estimated to be between £1,175 and £1,710 per month in 2021-22. Each year of an undergraduate course usually consists of three terms of eight weeks each but you may need to be in Oxford for longer. As a guide you may wish to budget over a nine-month period to ensure you also have sufficient funds during the holidays to meet essential costs.

### Living costs breakdown

	Per month		Total for 9 months	
	Lower range	Upper range	Lower range	Upper range
Food	£280	£400	£2,520	£3,600
Accommodation (including utilities)	£655	£790	£5,895	£7,110
Personal items	£130	£250	£1,170	£2,250
Social activities	£45	£115	£405	£1,035
Study costs	£45	£100	£405	£900
Other	£20	£55	£180	£495
<b>Total</b>	<b>£1,175</b>	<b>£1,710</b>	<b>£10,575</b>	<b>£15,390</b>

In order to provide these likely living costs, the University and the Oxford University Students' Union 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 likely lower and upper ranges above are based on a single student with no dependants living in college accommodation (including utility bills) and are provided for information only.

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When planning your finances for future years of study at Oxford beyond 2021-22, you should allow for an estimated increase in living expenses of 3% each year.

### **Document accessibility**

If you require an accessible version of the document, please contact Undergraduate Admissions by email ([uao.comms@admin.ox.ac.uk](mailto:uao.comms@admin.ox.ac.uk)) or via the online form (<http://www.ox.ac.uk/ask>).

*Please note, at the time of publishing the CIS, further details regarding the availability and eligibility of financial support for some EU students with settled or pre-settled status remained outstanding. Confirmation about funding arrangements for the year abroad were also outstanding. Any updates impacting students will be published on the Oxford and the EU webpage.*