

## *Tutorials: Engineering*

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OXFORD'S DEPARTMENT OF ENGINEERING SCIENCE is a large and thriving department with very highly rated teaching and world class research. It was ranked first in the world for general engineering in the 2020 Times Higher Education subject league tables. The building is in the University's science area, close to Wycliffe Hall and the University Parks. Research is focused in biomedical engineering, chemical and process engineering, civil and offshore engineering, electrical and opto-electronic engineering, energy engineering, information, control and vision engineering, solid mechanics and materials, and thermofluids and turbomachinery, and focuses on applying hard science to established and emerging problems. Numerous spin out companies reflect the success of the department in applying creative solutions to real world problems.

### PREREQUISITES

All students wanting to study engineering sciences at Oxford should have studied engineering at their home universities for at least two years and have a secure knowledge of the branches of mathematics directly related to the parts of engineering that they wish to study at Oxford, OR have studied mathematics and/or physics at their home universities for at least two years.

### TEACHING

Teaching for engineering will happen in a mix of University lectures, which play a key part in engineering teaching, tutorials (one to one meetings with a specialist tutor), and, if possible, group tutorials with other Oxford undergraduates. Normally problem sheets are completed for tutorial work, but more essay based work, such as literature reviews or drawing up plans for a particular project, may be undertaken. Undergraduate lectures and tutorials are offered in a broad unified course, complemented by more specialised teaching in biomedical, chemical, civil, electrical, information and mechanical engineering for highly advanced undergraduates. Many visiting students find the more general courses better suited to their backgrounds. Full lecture notes and other supporting materials are available on the University's virtual learning platform to which students will have full access once they are in Oxford.

For practical reasons it is not normally possible to arrange lab classes and it will definitely not be possible to arrange internships or practicums. However, big corporations including American multinationals regularly recruit in Oxford and it may be possible to start a conversation leading to a US internship.

### CHOOSING TUTORIALS

To choose your STEM tutorial(s), you'll need to find your way around the University of Oxford website. Go to the Undergraduate Courses webpage to find a list of subjects. Click on whichever area you intend to study and for each there will be a tab along the top titled "Structure." Scroll down on that page to "Course Structure," where the tutorials offered are listed.

Please ignore information about how to apply, interviews, the acceptance rate, examinations, etc., as this is all intended only for matriculated students registered for degrees at Oxford.

More information may be available on the Oxford engineering department's website. Keep in mind any posted course schedule is subject to change. Note: Hilary term is the spring term; Michaelmas term is the fall term.

Because lectures, classes, and practicals are offered by the Computer science department in specific Oxford terms, SCIO strongly recommends that its students opt for a course which is taught in the department in the term in which they want to come. If this is not possible SCIO can try to arrange tutorials in the subject when it is not being taught in the department, but students will be less well integrated into the department and have correspondingly fewer opportunities to meet and work with other Oxford students.

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### SUBMITTING YOUR COURSE SELECTIONS

Prior to submitting your Course Selections within your application, please alert your Oxford advisor via phone or email and include the following information for each STEM tutorial you are requesting:

- The exact title of the tutorial
- Which courses you have done which you feel will enable you to do this tutorial
- Whether you will be taking this course to fulfil a specific requirement at your home institution. If so, you should attach your institution's syllabus. If not, you should provide a list of any specific topics you wish to cover.

Note: All students take two tutorials—a primary (6 credits) and a secondary (3 credits)—and provide an alternative for each. Thus, if you want to take two STEM tutorials, you should list four unique titles and provide details for each according to the questions above.

After informing your Oxford advisor of your STEM tutorial requests, you may submit the titles within your application's Course Selection questionnaire. Armed with the additional information you provide from the questions above, the Oxford staff can search for the most appropriate tutor when the time comes. Your advisor will contact you should any queries arise.