

## Additional course costs

### Compulsory costs

Costs involved in taking the undergraduate Engineering courses (in addition to University and College fees), as at August 2022, are as follows:

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## Essential equipment

### Drawing equipment

All students will need the following essential drawing equipment. Depending on which lab group you are allocated to you may need it for the Structures Lab, which for some students will start in week 2.

A supply of complete kits are available for purchase from the vending machine located in the Design and Project Office (DPO) at a cost of £22.00. The vending machine also sells some of the items individually. Cashless payments only on the vending machine, these include debit or credit card, Apple Pay, Google Pay etc.

The drawing kit comprises of the following items (full details/part numbers available [here](#)):

- HB Pencil
- Shine Plastic Eraser
- Blundell Harling 300mm ruler
- Ecobra Compass
- Rumold Circle template
- Rumold Protractor

\*Please note, using equipment that does not meet the criteria we have set out may affect the quality and accuracy of your work and therefore it is possible you may be penalised when submitting for marking.

If you wish to purchase your own equipment we would advise you to buy items of at least a similar standard to those we have recommended.

### University approved calculator

The only modules of electronic calculator that are permitted to be taken into the exams are:

- CASIO fx-991 (any version)
- CASIO fx-115 (any version)
- CASIO fx-570 (any version)

The Department currently sells the Casio FX-991-ES-Plus model of calculator which is available from the vending machine in the DPO at a cost of £27.00, this is a [University approved](#) version for use in the exams.

Each such calculator **must** be marked by the Department in the approved fashion before bringing it to an examination. Please see instructions below on purchasing and marking an approved calculator.

**No** other calculator may be brought into the exam room. This is a University regulation and **cannot be varied by**

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## Additional course costs

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the Department. Please refer to the [official University notice](#) for more information.

## Databooks

A full set of Databooks can be found online [here](#). Paper copies of databooks will be issued to students at the Introductory Lectures.

## Computers

There is no need to purchase a computer specifically for the Engineering course, as student use desktop computers with course software pre-installed are available in the department.

Many students find having their own computer to be convenient. If you are contemplating buying your own computer you may wish to be aware of the following:

- Most software used in the course is generic and/or web based (Python, Microsoft office etc.)
- The PicoScope provided to students in the 1<sup>st</sup> year for the IEP project works with Windows, macOS and Linux machines. It does not work with many Chromebooks (although some success has been obtained with more modern Chromebooks that offer a Linux virtual machine).
- The CAD software used in the course is only available for Windows, (but can be run on macOS using emulation with the purchase of extra software). Most students will find using it on the dual monitor machines provided in the department preferable to using a laptop. There is no need to buy a high specification Windows machine optimised for CAD for the modest teaching use in the Engineering course.
- The ANSYS Materials Selector Software, optionally used in the materials course, only runs on Windows (but will run on macOS with emulation software).

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## Non-compulsory costs

### Centre for Languages and Inter-Communication (CLIC) trips

The cost of these optional trips for those taking language courses (which are often open to students in all years) is c. £300.

### Photocopying and printing

Students are required to pay for [photocopying and printing](#) if they exceed their [quota](#), which is designed to accommodate the majority of the requirements of the course.

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