Electronics and Computer Science

University of Edinburgh

Venues

King's Buildings Campus

Content

Year 1
In Year 1 both electronics and computer science have equal weighting. You will learn the fundamental concepts in both that provide the basis for more advanced study in later years, including a project laboratory and programming. This is supplemented by important mathematics allowing the engineering concepts to be properly explored and explained.

Year 2
The broad area of electronics and electrical engineering is broken down so that you study a wider range of courses reflecting the types of engineering often encountered. You will study courses in analogue circuit design, digital system design, microelectronic devices and communication systems in electronics, while in computer science courses covering algorithms; computer systems and software engineering are taken.

Alongside these courses are hardware project laboratories supporting the taught material and software practical elements are incorporated with in the computer science courses. Mathematics courses include some of the more advanced mathematical techniques necessary.

Year 3
The thematic areas developed are continued into Year 3, where there is a wide choice of option courses. There are optional project laboratories in digital systems design and analogue mixed signal design, and a choice of computer science and software engineering practicals.

It is possible to deviate from an equal division of electronics and computer science courses up to a maximum asymmetry of 40 credits in one to 80 credits in the other.

It is not possible to be specific about the breakdown between taught material and practical/laboratory work due to the choice available, but you will study a minimum 30 credits from practical work (depending on course selection).

Year 4
You will continue to develop your skills in those themes where you have developed a keen interest in previous years by again selecting from a range of option courses. Courses in bioelectronics are also available. At least 20 credits of Year 4 will be practical, with some of the option courses providing additional practical experience.

You will also begin your major project that will span Years 4 and 5. If you are undertaking an industrially sponsored project on placement, it will normally be conducted on the company premises. Students undertaking an internal project will work in the University.

As in Year 3, it is possible to deviate from an equal split of electronics and computer science.

Year 5
The ability to select courses according to interest is continued and some of the courses are also dominated by practical project work. These courses are taken after the completion of the project. This phase of the project represents half of the year's work making Year 5 dominated by the application of learned knowledge to practical situations.

As in previous years it is again possible to deviate from an equal split of electronics and computer science. You will study a minimum 60 credits from practical work (depending on course selection).

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

MEng

UCAS Code

GHK6

Course Length

5 years

Faculty

College of Science and Engineering

Department

Engineering

Entry Requirements

2026 entry requirements

Standard entry:
4 Highers at AAAA (by end of S5 preferred) including Maths at A and one from Biology, Chemistry, Computing Science, Engineering Science or Physics (preferred) plus National 5 Engineering Science or Physics at B and English at C.

Widening access entry:
4 Highers at AABB (two sittings) including Maths at A and one from Biology, Chemistry, Computing Science, Engineering Science or Physics (preferred) plus National 5 Engineering Science or Physics at B and English at C. Highers at BBB must be achieved in one sitting.

SCQF Level

11

SCQF Points

«SCQFPoints»

Progression Routes

Degrees are accredited the UK Engineering Council by the British Computer Society

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

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Edinburgh
City of Edinburgh
EH8 9YL

Website

www.ed.ac.uk