

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.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

BEng Hons

UCAS Code

GH60

Course Length

4 years

Faculty

College of Science and Engineering

Department

Engineering

Entry Requirements

2023 entry requirements

Standard entry:

4 Highers at AAAB (minimum) but typically AAAA (by end of S5 preferred) including Maths at A and one from Biology, Chemistry, Computing Science, Engineering Science or Physics (preferred) plus English at National 5 at C. Advanced Higher Maths recommended.

Widening access entry:

4 Highers at AABB (by end of S6) including Maths at A and one from Biology, Chemistry, Computing Science, Engineering Science or Physics (preferred) plus English at National 5 at C. Advanced Higher Maths recommended. Highers at BBB must be achieved in one sitting S4-S6.

SCQF Level

10

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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City of Edinburgh
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