Structural and Fire Safety Engineering

University of Edinburgh

Venues

King's Buildings Campus

Content

The subject is fundamentally multi-disciplinary in nature and the engineer must seek to balance the complex and often conflicting demands of clients, architects, the fire authorities and regulators.

The fire safety engineer therefore needs to be equipped with essential knowledge of fire phenomena, and an understanding of how people, structures, and fire safety systems respond to fire.

Year 1
Your time will be divided equally between engineering, mathematics and option courses. You study different branches of engineering, followed by the first in-depth study of civil engineering, encompassing an introduction to fire safety engineering. Your option courses may be selected from the sciences, arts or humanities.

Year 2
This year is dominated by courses on engineering fundamentals, focused on civil engineering, supported by further study of mathematics. You will extend the application of your scientific and mathematical skills to solving engineering problems, building on your experiences from Year 1, including some project work.

There is also a substantial laboratory element to many of the engineering courses, giving you experience of practical engineering and experimental work.

Year 3
You will now focus entirely on study of core materials in structural engineering and fire safety engineering, supplemented by the choice of an option course within the discipline.

At the end of Year 3, you will have the option of completing one more year for a BEng (Hons) or a further two years for a MEng.

Year 4
You will pursue specialist courses in fire science and fire safety engineering together with further study of structural engineering. In addition, you can choose two option courses from within the discipline or beyond.

You will also undertake substantial design projects encompassing geotechnical engineering and interdisciplinary engineering.

Year 5
You will pursue further advanced courses which are entirely related to fire safety engineering and structural engineering. You will undertake a substantial fire safety engineering design project supported by experienced

industrialists.

Half of the final year credits are allocated to the honours thesis, which is an original study of a challenging engineering problem related to fire and/or structures.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

MEng

UCAS Code

HHF1

Course Length

5 years

Faculty

College of Science and Engineering

Department

Engineering

Entry Requirements

2026 entry requirements

Standard entry:
4 Highers at ABBB (first sitting) or 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.

For direct entry to year 2 you would require Advanced Higher Maths and Physics or Engineering Science at AA plus the above.

Widening access entry:
4 Highers at ABBB (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

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Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

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