# Electronic and Software Engineering

University of Aberdeen

## Venues

Old Aberdeen Campus

## Content

This programme delivers the ideal marriage between electronic engineering and software engineering, allowing graduates to pursue a wide range of engineering interests and career choices. You will use your imagination, creativity and knowledge to provide society with the complex electronic systems it needs as well as the software required to operate these systems optimally.

In your future career you may design the machines that supply our energy needs, digital control systems for aircrafts, internet-enabled sensors, design complete computer systems on a silicon chip, photonics to instrument the ocean depths, create stunning electronic displays, or design the latest communications satellite or mobile phone.

Year 1: Principles of Electronics; CAD and Communications in Engineering Practice; Fundamentals of Engineering Materials; Engineering Mathematics 1; Fundamental Engineering Mechanics; Electronics Design.

Year 2: Fluid Mechanics and Thermodynamics; Process Engineering; Engineering Mathematics 2; Design and Computing in Engineering Practice; Electrical and Mechanical Systems; Electronic Systems.

Year 3: Control Systems; Signals, Systems and Signal Processing; C/C++ Programming; Electrical Power Engineering; Digital Systems; Communications Engineering 1; Electrical and Electronics Engineering Design; Engineering Analysis and Methods 1A; Project and Safety Management.

Year 4: Sensing and Instrumentation; Electrical Machines and Drives; Computer and Software Engineering; Communications Engineering 2; Individual Project (MEng/BEng); Group Design Project (BEng).

## Start Date

September

## Qualification

Degree

## Study Method

Full time

## Award Title

BEng Hons

## UCAS Code

H6H4

## Course Length

4 years

## Faculty

Physical Science

## Department

Engineering

## Entry Requirements

2027 entry requirements

Standard entry:
4 Highers at BBBB including Maths and Engineering Science or Physics plus English at National 5.

Widening access entry:
3 Highers at BBC including Math and Engineering Science or Physics plus English at National 5.

1 Foundation Apprenticeship is accepted in place of a non-essential Higher.

## SCQF Level

10

## Progression Routes

«ProgressionRoutes»

## Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

## Address

King's College
Aberdeen
Aberdeen City
AB24 3FX

## Website

www.abdn.ac.uk