

Genetics with Industrial Placement

University of Aberdeen

Venues

Old Aberdeen Campus

Content

Genetics is the study of the inherited differences between individuals and is central to biology, medicine and biotechnology. It allows us to understand normal events such as development, growth and ageing in terms of the underlying molecular machinery of the cell and helps explain how these processes go wrong in disease.

When organisms reproduce, the offspring tend to resemble their parents, but they are not identical to either parent, nor are they simply a mixture of the two parents. Genetics is concerned with explaining the behaviour of inherited characteristics, in terms of the underlying genetic machinery which turns a single cell (the fertilised egg) into a fly, a worm, or a human. Genetics also explains how over longer time scales, living things change, or evolve, to produce the dazzling diversity of life.

Year 1: Introduction to Medical Sciences; The Cell; Chemistry for the Life Sciences 1; Chemistry for the Life Sciences 2.

Year 2: Genes and Evolution; Molecular Biology of the Gene; Foundation Skills for Medical Sciences; Energy for Life; Microbes, Infection and Immunity; Research Skills for Medical Sciences.

Year 3: The Molecular Biology of the Cell; Genetics; The Molecular Control of Cell Function OR; Fundamentals of Immunology.

Year 4: Honours Genetics – Option 1; Honours Genetics – Option 2; Honours Advanced Molecular Biology; Genetics Honours Research Project.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

MSci

UCAS Code

C401

Course Length

5 years

Faculty

Life Sciences and Medicine

Department

Biological Sciences

Entry Requirements

2026 entry requirements

Standard entry:

4 Highers at AAAB including 2 maths or science subjects plus English, Maths and Chemistry or Physics at National 5.

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

SCQF Level

11

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

Address

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Website

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