

Biology

Advanced Higher

Recommended Entry Requirements

A to C at
Higher
Biology

Progression through Biology

A pass at Advanced Higher leads to study at higher education in Biology or a related subject.



Course Content

Cells and proteins

- laboratory techniques for biologists
- proteins
- membrane proteins
- communication and signalling
- protein control of cell division

Organisms and evolution

- field techniques for biologists
- evolution
- variation and sexual reproduction
- sex and behaviour
- parasitism

Investigative biology

- scientific principles and process
- experimentation
- reporting and critical evaluation of biological research

Skills Developed

- extending and applying knowledge of biology to new situations, interpreting and analysing information to solve complex problems
- planning and designing biological experiments/investigations, using reference materials and including risk assessments to test a hypothesis or to illustrate particular effects
- carrying out complex experiments in biology safely, recording systematic detailed observations and collecting data
- selecting information from a variety of sources and presenting detailed information, appropriately, in a variety of forms Version 2.0 5
- processing and analysing biological information/data (using calculations, significant figures and units, where appropriate)
- making reasoned predictions and generalisations from a range of evidence/information
- drawing valid conclusions and giving explanations supported by evidence/justification
- critically evaluating experimental procedures by identifying sources of error and suggesting and implementing improvements
- drawing on knowledge and understanding of biology to make accurate statements, describe complex information, provide detailed explanations and integrate knowledge
- communicating biological findings/information fully and effectively
- analysing and evaluating scientific publications and media reports

Assessment

Exam Paper

100 marks , 75%

Project

30%

Related Careers

A qualification in biology can lead to careers in medicine,

- farming
- environmental protection
- sports science and many others.

Some famous faces who have Biology-related degrees include Steve Backshall, Mayim Bialik, Harry Hill, Lisa Kudrow and Ashton Kutcher!

