Biology Higher

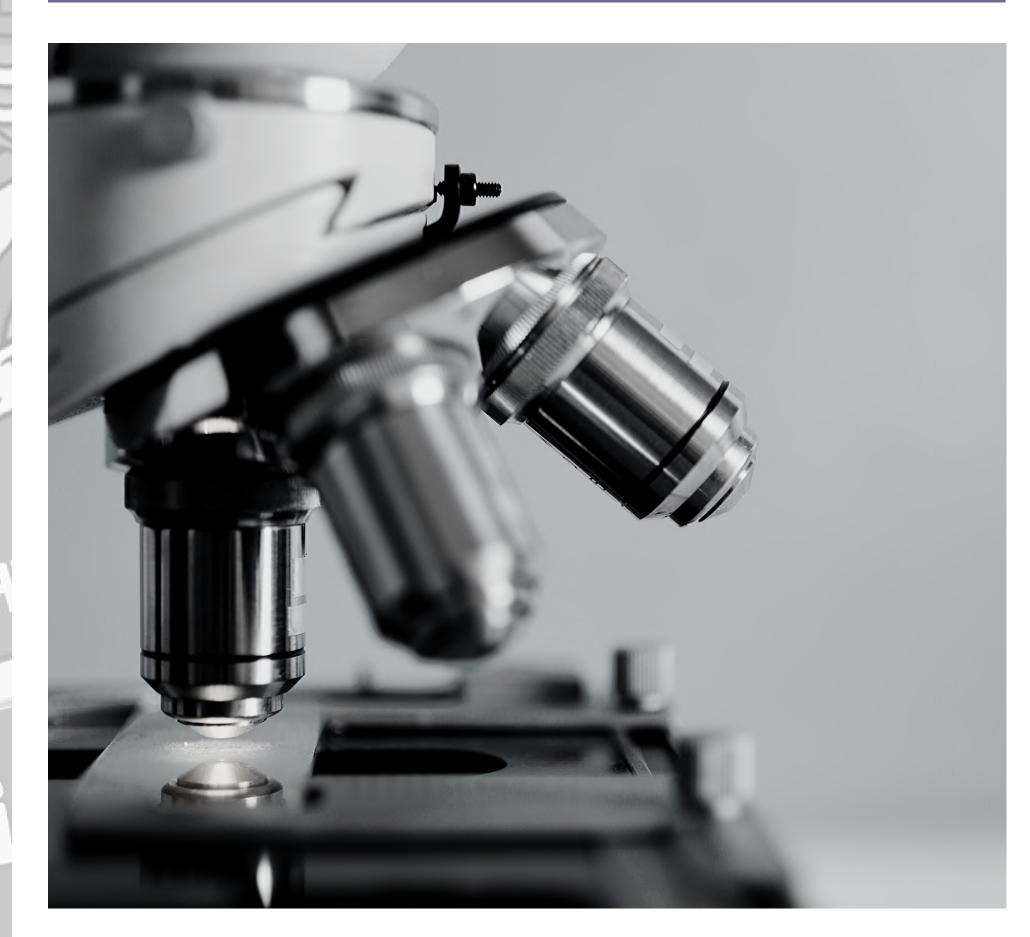
Recommended Entry Requirements



Progression through Biology



A pass at Higher level would provide access to study the subject at Advanced Higher or would provide a university entry level qualification.



- metabolic pathways • cellular respiration • metabolic rate • metabolism in conformers and regulators metabolism and adverse conditions • environmental control of metabolism

- genetic control of metabolism

Course Content

DNA and the genome

- structure of DNA • replication of DNA • gene expression • cellular differentiation • the structure of the genome • mutations
- evolution
- genomic sequencing

Metabolism and survival

Sustainability and interdependence

- food supply, plant growth and productivity
- plant and animal breeding
- crop protection
- animal welfare
- symbiosis
- social behaviour
- components of biodiversity
- threats to biodiversity

Skills Developed

- demonstrating knowledge and understanding of biology by making accurate statements, describing information, providing explanations and integrating knowledge
- applying biology knowledge to new situations, analysing information and solving problems
- planning and designing experiments/practical investigations to test given hypotheses or to illustrate particular effects
- carrying out experiments/practical investigations safely, recording detailed observations and collecting data
- selecting information from a variety of sources
- presenting information appropriately in a variety of forms • processing information (using calculations and units, where appropriate) • making predictions and generalisations from evidence/information • drawing valid conclusions and giving explanations supported by evidence/justification
- evaluating experiments/practical investigations and suggesting improvements
- communicating findings/information effectively

Assessment

Exam Paper 1 25 marks

Exam Paper 2 95 marks

Practical Assignment 20 marks

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!









