

Biology

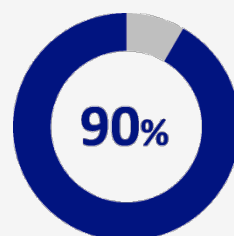
Overview

The Biology AS and A Level specification encourages candidates to:

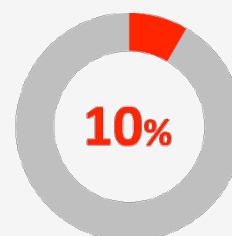
- Develop essential knowledge and understanding of concepts of biology, and the skills needed for the use of these in new and changing situations;
- Develop an understanding of scientific models;
- Be aware of advances in technology, including information technology, relevant to biology;
- Recognise the value and responsible use of biology in society;
- Sustain and develop their enjoyment of, and interest in, biology.

In addition, the A Level specification encourages candidates to show knowledge and understanding of facts, principles and concepts from different areas of biology and to make and use connections between them.

Assessment



Examination



Controlled Assessment

Examining Board

WJEC

Requirements

B grade at GCSE in one of the following, Science A, Additional Science or Triple Award Biology. B grade in GCSE mathematics is also preferred due to the increased focus on mathematical skills in the new curriculum.

Departmental Staff

Mr D Thomas. - (Curriculum Leader)

Mrs S Cornell

Miss M Cresswell



What our students say...

“Biology has helped me to develop my knowledge both intellectually and practically. It is an extremely challenging and valuable subject which opens many doors for the future.”

Rhian



Course Outline

Unit 1 - Biological molecules, cell structure, membranes and transport, enzymes, DNA, cell division.

Unit 2 - Biodiversity and classification, gas exchange mechanisms, transport, nutrition.

Unit 3 - Respiration, photosynthesis, microbiology, ecosystems, homeostasis, nervous system.

Unit 4 - Reproduction, genetics, evolution, immunity to disease.

AS Unit 1 - written examination 1hr 30 mins
20% of A level qualification

AS Unit 2 - written examination 1hr 30 mins
20 % of A level qualification

A2 Unit 3 -written examination 2hrs
25% of A level qualification

A2 Unit 4 - written examination 2hrs
25% of A level qualification

A2 Unit 5 - Practical examination 3hrs
10 % of A level qualification

Career and Progression Opportunities

A Level Biology provides an excellent platform for progression to Higher level qualifications such as degrees or Higher National Diplomas. Biology provides a range of skills which are useful in a variety of careers including, Veterinary science, Laboratory Work, Field Work, Plant Breeding, Conservation Work, Environmental Health, Agriculture, Horticulture, Forestry, Working with Animals, as well Health Care careers such as medicine, dentistry and physiotherapy.

Contact

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