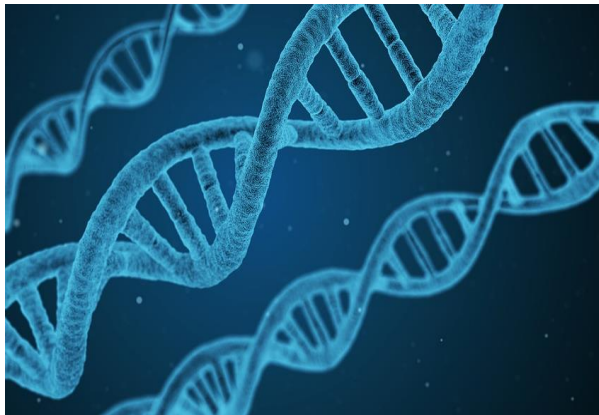




Biology



What our students say:

“Studying Biology is interesting and enjoyable and the subject links well into other subjects and the skills learnt are transferable into a variety of areas.”

Entry Requirements:

5 GCSEs graded 9 – 4, including English and Mathematics, plus 2 grade 5+ in Combined Science or in Biology plus one other Science.

Exam Board and Specification Link:

Edexcel A Level Biology, 7402: [Edexcel Biology specification](#)

What skills will you develop?

Biology studies humans, animals and plants at greater depth than at GCSE. You will be expected to do more independent learning than before. There will be a good deal of practical work and you will learn to think critically about aspects of biology that impinge on everyday life. You will also develop synoptic thinking skills, being able to see how different aspects of biology and other sciences link together. Application of mathematical concepts will also be a key skill gained from studying biology.

What will you study?

The A level course is wide ranging and includes the following units of study:

- Topic 1 - Biological molecules
- Topic 2 – Cells, viruses & reproduction of living things
- Topic 3 – Classification & biodiversity
- Topic 4 – Exchange & transport
- Topic 5 – Energy for Biological processes
- Topic 6 – Microbiology & pathogens
- Topic 7 – Modern genetics
- Topic 8 – Origins of genetic variation
- Topic 9 – Control systems
- Topic 10 – Ecosystems

Why study this subject?

Biology studies a range of concepts that are fundamental to how life on earth exists. Students will gain a critical awareness of current social and environmental issues and an understanding and respect for living things through the study of biology. The subject complements many other A-level subjects and is useful in a wide range of university courses. Students develop a range of transferable skills such as analytical, evaluative and synoptic skills as well as practical skills, including the ability to plan and manipulate data.



Biology

How will you be assessed?

You will be assessed by written examinations at the end of the two years and the investigative and practical skills will be assessed throughout the course.

There are three written exams:

Paper 1 Advanced Biochemistry, Microbiology & Genetics – 1hr 45min, 30%, Topics 1 – 7, 90 marks

Paper 2 Advanced Physiology, Evolution & Ecology – 1hr 45min, 30%, Topics 1-4 & 8-10, 90 marks

Paper 3 General & practical principles in Biology – 2hr 30min, 40%, Topics 1-10, 120 marks

Where can the subject lead?

Biology can be used as an entry qualification for a wider variety of courses at higher education. These include traditional biological topics: medicine, dentistry, midwifery, physiotherapy, sports science, environmental science etc. Students with biology have also gone on to study non-scientific subjects such as art, history, law, music, foreign languages for example.

Contact Information

For further information about this course, contact Andrew Williams, Assistant Headteacher/Head of Science, at: awilliams@chenderit.net