

# BIOLOGY

## A Level Course

### Description

Biology, like all sciences, is a practical subject. Throughout the course you will carry out practical activities including:

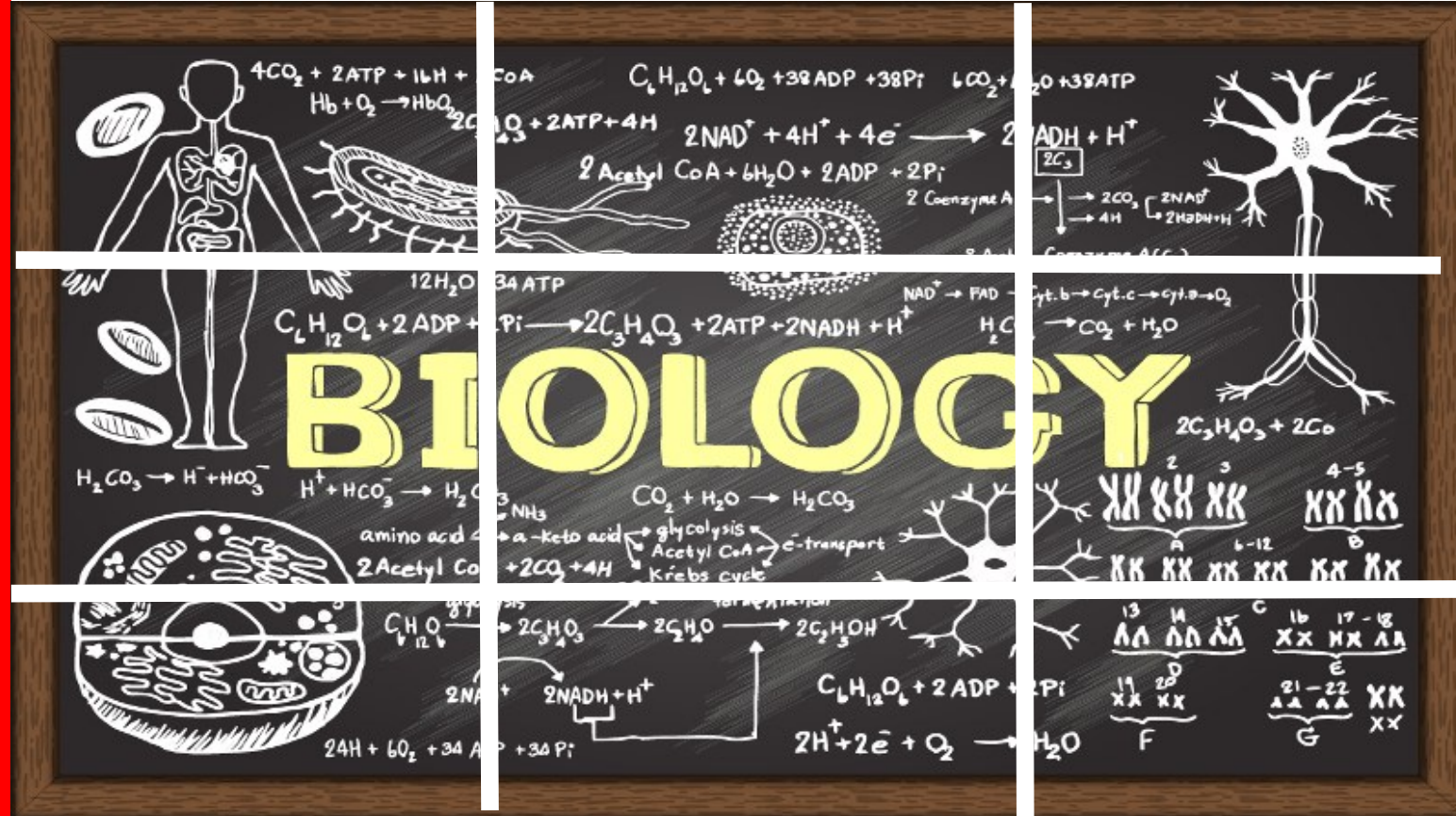
- Using microscopes to see cell division
- Dissection of animal or plant systems
- Aseptic technique to study microbial growth
- Investigating animal behaviours

Investigating distributions of species in the environment

These practical's will give you the skills and confidence needed to investigate the way living things behave and work. It will also ensure that if you choose to study a Biology-based subject at university, you'll have the practical skills needed to carry out successful experiments in your degree.

### Entry Requirements

GCSE Average: 4.8. GCSE grade 6 in Maths, grade 5 in English, grade 7 in Science or grade 7 in single Biology

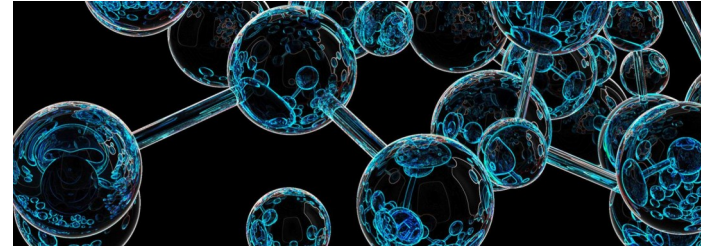


### Progression

Biology A-level will give you the skills to make connections and associations with all living things around you. Biology literally means the study of life and if that's not important, what is? Being such a broad topic you're bound to find a specific area of interest, plus it opens the door to a fantastic range of interesting careers. Possible degree options include: Biology, Psychology, Sport, Medicine, Anatomy, Physiology and pathology (Pharmacology), Toxicology and pharmacy (Chemistry). Possible career options include: Doctor, Clinical Molecular geneticist, Nature conservation officer, Pharmacologist, Research scientist, Vet, Secondary school teacher, Marine Biologist, Dentist.



## Course Details



- ◆ There is no coursework on this course
- ◆ There are three exams at the end of the two years for A level, all of which are two hours long. At least 15% of the marks for A level are based on what you learned in your practicals
- ◆ The AS has two exams at the end of the year. Both are 1 hour and 30 minutes long

***“Biology at A-Level is a lot more challenging , but I really enjoy it, we go into so much more detail than GCSE. I have found the immune system fascinating, understanding the complex dynamic processes and the number of cells involved in making us immune to a pathogen is astounding, it’s like a microscopic war going on in your body”***

***“Biology at A-Level is really interesting, I have really enjoyed the cell cycle and how when this goes wrong it can lead to cancer. Understanding these processes is really important”***

AS and first year of A-Level	Second year of A-Level
1. Biological molecules	5. Energy transfers in and out between organisms
2. Cells	6. Organisms respond to changes in their external environments
3. Organisms exchange substances with their environment	7. Genetics, Populations, evolution and ecosystems
4. Genetic information, variation and relationships between organisms.	8. The control of gene expression

## Further Information

**Course Leader: Mr A Yohannes**  
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**Examination board: AQA**  
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