	Biology
Exam Board	OCR Biology A
Course Entry Criteria	7 in Biology GCSE or 7 in double science GCSE
Essential skills	You will need to be well organised with a passion, enthusiasm and enjoyment of biology, and to be able to express this through good communication and writing skills. In addition, you must have good manipulation skills for the practical content of the course. You will need to be numerate and be able to analyse data, including plotting and interpreting graphs. You will also need to have good analytical and evaluative skills.
Year 12	The course content and assessment are shown below: **Module 1** - Development of practical skills in Biology. This includes skills of planning, implementing, analysis and evaluation. **Module 2** - Foundations in Biology. This includes: cell structure, biological molecules; nucleotides and nucleic acids; enzymes, biological membranes; cell division, cell diversity and cellular organisation. **Module 3** - Exchange and Transport. This includes: Exchange surfaces, Transport in animals, Transport in plants. **Module 4** - Biodiversity, evolution and disease. This includes: communicable diseases, disease prevention and the immune system, biodiversity, classification and evolution. **End of Year 12 mock examinations are sat in the Summer term.**
Year 13	The course content and assessment are shown below: **Module 1, 2, 3** and **4** as in year 12. **Module 5** - Communications, homeostasis and energy. This includes: Communication and homeostasis, Excretion, Neuronal communication, Hormonal communication, Plant and animal responses, Photosynthesis, and Respiration. **Module 6** – Genetics, evolution and ecosystems. This includes: Cellular control, Patterns of inheritance, Manipulating genomes, Cloning and biotechnology, Ecosystems, Populations and sustainability. **Paper 1** Biological Processes - Multiple choice, structured and extended response (100 marks) 2 hr. 15 **Paper 2** Biological Diversity - Multiple choice, structured and extended response (100 marks) 2 hr. 15 **Paper 3** Unified Biology - Structured questions and extended response (70 marks) 1 hr 30 **Non-exam assessment** – Practical endorsement for Biology assessed via 12 practical activity groups. This is Pass/Fail and reported separately.
University requirements	Biological Sciences & Biomedical Science. Oxbridge A*A A Russell Group A A A Non-Russell Group A B-B C
Related courses and careers	Veterinary Science, Medicine, Dentistry, Pharmacology, Toxicology, Genetics, Botany, Biomedical Sciences, Life Sciences, Physiotherapy, Zoology, Plant Science, Microbiology, Biochemistry, Physiology, Medicinal Chemistry, Marine Biology, Ecology, Biotechnology, Nursing, Midwifery, Optometry. Please go to www.societyofbiology.org/education/careers for more information.
Other Details	You will develop a sense of awe and wonder at the scale and impact of natural processes and phenomena. You will develop an understanding of biological principles and the application of these concepts to novel situations. You will also learn about the moral, ethical, social and cultural implications of some of the applications of Biology and biotechnology, and how these are changing the world.