



THE  
WORTHGATE SCHOOL  
CANTERBURY

# COURSE DESCRIPTOR

## UFP BIOLOGY

### **SUBJECT OVERVIEW**

Studying UFP Biology will greatly develop your interest and enthusiasm for the subject; leading to a desire to study university courses and then careers with biology at their core. You will develop a deeper understanding of how science works and how the different areas of biology are related to each other. You will gain the skills of reasoning, critical thinking, researching, presenting and being an independent learning. All these skills are essential for many professions.

### **PRIOR LEARNING REQUIRED**

An interest in, and a desire to study, Biology is essential. Students who are willing to spend time studying on their own will do very well and will enjoy the course. We aim to instil a deep interest in the subject, which can be maintained in courses of further education and beyond.

GCSE or equivalent

IELTS 5.5 or equivalent

### **EXAM BOARD**

CGS

## COURSE CONTENT

### Year 1

**MODULE 1 – Cell Biology:** Cells, Cell membranes, and Cell cycle. **Molecular Biology:** Biochemistry, Nucleic acids, and Enzymes

**MODULE 2 – Exchange & Transport:** Gas exchange, Transport systems in animals and Transport systems in Plants (the latter is a self-taught topic).

**MODULE 3 – Disease.**

**MODULE 4 – Energy & Co-ordination:** Respiration, Homeostasis and Nerves & Hormones

**MODULE 5 – Genetics & Evolution:** Genetics & evolution, Genetic problems, and Genetic manipulation

## ASSESSMENT

Formal internal assessments take place regularly about once every half term and homework is set on a regular basis.

Regular assessment tests take place throughout the course. The first examination is in January and is based on the Foundations of Biology, Module 1 and the final examinations (papers 2 and 3) at the end of the course.

There are 3 assessed pieces of coursework which is completed throughout the year and comprises of 40% of the total mark. Coursework, homework, and past examination papers are set frequently, and students are regularly given feedback as to their progress.



Paper	Length of paper	Weighting
Paper 1 MCQ exam The basics of science	20 marks 30 minutes Multiple choice paper	7% of UFP
Paper 2 MCQ exam Beyond the basics of science	30 marks 45 minutes Multiple choice paper	13% of UFP
Paper 3	90 marks 2 hours 45 minutes Structured questions	40% of UFP

Coursework	Description	Weighting
1	Poster Relating a subject matter from Biology to another subject	15% of UFP
2	Presentation Presenting a selected Biology Communicable disease topic	10% of UFP
3	Controlled assessment Practical and examination Structured questions	15% of UFP

## TEXTBOOKS/REVISION GUIDES

Title	ISBN	Author
Advanced Biology for you	978-1408527351	Gareth Williams
OCR A level Biology	9781447990802	Sue Hocking, Frank Sochacki, Mark Winterbottom

Summaries of each unit, your notes and past examination papers will be your major source of revision. There are revision guides for both AS and A2. Kerboodle is a useful online resource. Revision guides and workbooks will be offered by your teacher at a discounted price.

## HIGHER EDUCATION PATHWAYS

Biology opens a large range of career options; together with other sciences, it is important for technology, research, conservation, resource management, social work and professions associated with medicine for example pharmacy as well as many other occupations.

Previous students have studied:

University of Kent – Biomedical Science

University of Leeds – Sport Science and Physiology

University of Edinburgh – Biological Science (Genetics)

## COMPLEMENTARY SUBJECTS OF STUDY

Chemistry, Psychology, Maths, Physics.

## CURRICULUM DIRECTOR

Ms. Sue Chubb

