



## **A level Applied Science**

### **Who is this course for?**

Applied Science is an ideal A Level for those students who are aiming for a broad range of science related careers, such as nursing, laboratory work, forensic analysis or primary teaching or simply wish to study science to complement their other A level studies.

The Applied Science course will allow you to study how science is applied in many different types of professions and industries. The focus of the course is scientific usage, concentrating on how scientists and others use science in their work. You will also learn how science contributes to our lifestyle and the environment in which we live.

### **What are the entry criteria?**

Most students aiming to start A level Applied Science will achieve C grades in GCSE Science, Maths and English.

### **The Applied Science department at Wyke Sixth Form College**

The department uses a specialist laboratory that is equipped to the highest standards. In addition there is an open access computer area adjacent to the laboratories and a demonstration classroom shared with the rest of the Science department. Access is also available to computer rooms for completion of course work.

All students receive an AS and A2 textbook. The department makes wide ranging use of interactive on-line resources to facilitate independent learning.

During this course you will be able to:

- follow a programme of learning which is practically-based and which improves your practical skills;
- follow a varied science programme covering biology, chemistry and physics;
- work independently on a number of projects;
- learn about the work of different types of people using science and the scientific skills that they use;
- keep track of your progress and achievement throughout the course through a programme of continuous assessment.

## **The Applied Science staff team consists of:**

- Dr. David Pickering
- Dr. Paul Yardley

## **Course Details**

At Wyke we use the OCR A-level specification.

### **AS Level Units - Single Award**

- Science at work
- Analysis at work
- Monitoring the activity of the human body

### **A2 Level Units - Single Award**

- Investigating the scientist's work
- Working waves
- Synthesising organic chemicals

### **AS Level Units - Double Award**

- Science at work
- Analysis at work
- Monitoring the activity of the human body
- Cells and Molecules
- Forensic Science
- Physics of Sport

### **A2 Level Units - Double Award**

- Investigating the scientist's work
- Working waves
- Synthesis in organic chemicals
- Sampling testing and processing

Any two from:

- Materials for a purpose
- Biotechnology
- Electrons in action
- The mind and the brain
- Ecology and managing the environment

## **Method of assessment for both single and double award**

66% Coursework Portfolio

34% Examination

## **Departmental Enrichment**

The department offers lunchtime exam clinics and support with developing and improving your course work portfolio.

## **Student success**

In the first year of the course 2010-2011 the department achieved good results with excellent value added (as judged by ALIS and ALPS).

**Can we use the photo in the brochure for applied science please?**

## **What does this course lead to?**

Having **A-level Applied Science** can open up a world of opportunities in both university choices and career options. If you are considering applying to university to study environmental science, forensic science, nursing, laboratory work, forensic analysis or primary teaching, or any other subject related to a practical science related career, then A-level Applied Science is invaluable.

Possible career choices that require A-level Applied Science include: biological testing, biotechnology, independent research, food industry jobs, nutrition, nurse, zookeeper, animal care, veterinary nurse, scientist, amongst a huge range of others. In fact, having an A-level in Applied Science will put you in great stead for a huge range of careers, as it is a great qualification to have.