

## A-LEVELS FOR UNIVERSITY COURSES

Where there is no specific A-level requirement for a university course, then chemistry is a very good choice as a numerate central science. Many students who have gone on to study in a variety of areas such as music, law, architecture, accountancy and languages have included chemistry in their advanced studies.

### THINK CAREFULLY BEFORE YOU CHOOSE

| University subjects  | Possible A-level subjects   |
|--|---|
| <b>CHEMICAL SCIENCES</b><br>Biochemistry, Chemical Engineering, Colour Chemistry, Chemical Physics                   | <b>CHEMISTRY is essential</b>   |
| <b>MEDICINE AND DENTISTRY</b>  |   |
| <b>PHARMACY</b>  |   |
| <b>VETERINARY SCIENCE</b>  |   |
| <b>BIOLOGICAL SCIENCES</b><br>Agriculture, Microbiology, Botany, Soil Science, Horticulture, Zoology, Marine Biology | <b>AS CHEMISTRY is essential</b><br><b>A-level CHEMISTRY strongly recommended</b> |
| <b>MEDICAL SCIENCES</b><br>Bacteriology, Nursing, Environmental Health, Nutrition, Genetics, Physiology              | <b>CHEMISTRY is strongly recommended</b>  |
| <b>MATERIAL SCIENCES</b><br>Material & Polymer Science, Technology, Metallurgy, Materials Engineering                |   |
| <b>ENGINEERING</b><br>Aeronautical, Electronic, Agricultural, Instrumental, Civil, Mechanical, Electrical, Mining    | <b>CHEMISTRY is very useful</b>   |
| <b>ENVIRONMENTAL STUDIES</b><br>Archaeology, Geography, Oceanography, Ecology, Safety & Health, Forestry, Surveying  |   |
| <b>GEOLOGICAL SCIENCES</b><br>Geochemistry, Mineralogy, Geophysics, Mining   |   |
| <b>ACCOUNTANCY/BUSINESS</b>  |   |
| <b>ARCHITECTURE</b>  | <b>A numerate subject such as CHEMISTRY is useful</b>                             |
| <b>LAW</b>   |   |

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## GREENHEAD COLLEGE CHEMISTRY DEPARTMENT

### Why should I study Chemistry?

- It is an interesting subject.
- Your chosen career needs a qualification in chemistry.
- A qualification in chemistry is highly valued and leads to a wide variety of careers. If you are undecided, more options are kept open by studying chemistry.

### Why study Chemistry at Greenhead?

- This department has a consistent record of excellent results. The average pass rate over the last few years has been in excess of 98%.
- Our staff have high expectations of students but also care about their well-being. If you have ability then it will be reflected in your grade.
- The staff are very experienced with proven teaching skills and they are always available to help students resolve difficulties.
- Beacon Award 1997.
- Grade 1 in OFSTED inspection.
- This is one of the best equipped departments in the area.

### What are the entry requirements?

- To study chemistry at Greenhead you need five grade C's or above. This should include mathematics and chemistry or additional science (both at higher level.)

**Which specification is the most appropriate?**

The answer to this question is, "the specification that **you** think suits you best." To arrive at a decision you should:

- read about their differences
- ask advice from chemistry teachers
- ask chemistry students for their opinions
- ask any relatives who have experience in chemistry

and remember: **OPEN EVENINGS ARE DESIGNED TO HELP YOU MAKE UP YOUR MIND.**

Each of these specifications will lead to any career which requires A-level chemistry. Whichever specification you choose to study at Greenhead, you will not be disappointed. Past students have said:

- "I love chemistry. It is interesting, it really relates to industry and everyday life." (Salters)
- "I found the course the most fascinating out of all the subjects I had chosen for AS." (OCR)
- "My A-level Salters lessons were the ones I enjoyed most at Greenhead." (Salters)
- "I found the work packs very clear and easy to follow." (OCR)
- "It is a good course as it deals with real issues." (Salters)
- "I enjoy Chemistry because of the way it is taught." (OCR)

**Discuss with staff**

**GCSE**

**2 year A-level course or 1 year AS course  
Both have a choice of 2 specifications**

**University or College**

**Industry**

## COURSES OFFERED

There is a choice of two specifications which can be taken to:

- AS-level in one year
- A-level where further units are covered in a second year of study.

Both specifications include internally assessed practical work and are of the same standard differing mainly in their approach to the subject.

| OCR  | SALTERS   |
|--|---|
| <p>This popular chemistry specification focuses on basic principles and bears a more traditional approach.</p> <p>Some examples of topics covered:</p> <ul style="list-style-type: none"> <li>• Transition metals</li> <li>• Energy changes</li> <li>• Alkanes and alkenes</li> <li>• Spectroscopy</li> <li>• Rates of reaction</li> </ul> | <p>This specification looks at modern developments and applications of chemistry and introduces the chemical principles when required.</p> <p>Some examples of units covered:</p> <ul style="list-style-type: none"> <li>• Engineering proteins</li> <li>• Developing fuels</li> <li>• Medicines by design</li> <li>• The Atmosphere</li> </ul> |

A wide range of activities is used including laboratory practical investigations, data analysis, group work, analytical analysis and computer work.

