

# F108 CHEMICAL SCIENCES FOUNDATION



## ***The course F108 provides a four-year route to a number of BSc (Hons) Degree programmes offered in the Department of Chemistry.***

This course would be of interest to students who have followed Advanced level Chemistry, Applied Science or Access programmes in Chemistry or related subjects.

### **THE MODULES STUDIED**

Students can choose 3 modules to make up their own programme, however certain subjects are compulsory for entry into specific degree courses (these are marked as essential modules [E] and optional modules [O] on the course selection chart). Course titles, and essential modules are outlined below.

#### **Chemistry (2 semesters compulsory)**

This module covers atomic structure, atoms and moles, the periodic table, chemical bonding, chemical energy, kinetics and an introduction to Organic Chemistry, alkanes and alkenes. In the second semester ideas are extended and the key areas of Organic Chemistry, the Chemistry of the main group elements and Equilibria are studied in further depth. During the two semesters problem solving and practical work are integrated into the lecture programme.

#### **Mathematics (2 semesters compulsory)**

This lecture course aims to introduce students to graph work, differentiation and integration, vectors, statistics, trigonometry, logarithms, iteration and partial fractions. Students can expect to develop problem solving and analytical skills.

#### **Biology (2 semesters optional)**

This course looks at cell structure and function, biological molecules, cell division, genetics and metabolism in the first semester. During the second semester students will study hormonal control, transport systems in mammals and multicellular animals, the action of drugs, pharmacology and immunity. Biology is a practical subject and students will have opportunities to take part in laboratory investigations and practicals.

#### **Physics (2 semesters optional)**

The module explores in some depth the topics of measurement, mechanics, electricity thermodynamics, atomic physics, forces, magnetism, materials, waves and oscillations. Assignments are set on a regular basis and laboratory classes are organised to extend the ideas studied within the lecture course.

### **PROGRESSION**

Assessment is by examination and coursework and students are expected to score an overall mark of 50% to progress to the second year of the course.

In the second year options are: *Combined Honours including Chemistry, Chemistry, Chemistry with a Year in Industry, Medicinal Chemistry, Ocean Sciences (Chemistry Pathway).*

### **ENTRY REQUIREMENTS**

Applicants will be expected to fall into one of the following categories:

- Adult learners returning to education students with 'A' level passes.
- Adult learners returning to education with 5 GCSE /'O' level passes or more including Maths, Science and English Language.
- Sixth form leavers currently studying Advanced level Chemistry in combination with other subjects.
- Students from within European Union and students following access certificates

#### **Standard Offer**

A typical offer is likely to be CDD or 200 points in three subjects at A2, preferably in related subjects. Students with alternative A2 combinations are welcome to apply but should expect to be made higher offers. All students must also have a pass (grade C or above) in GCSE Mathematics, Science and English Language or hold equivalent qualifications. Adult learners are should have a minimum of 5 GCSE's grade 'C' or above including Mathematics, Science and English and may be invited for interview. Students with access certificates or foreign qualifications will be considered on an individual basis.

Students holding offers at the University of Liverpool may be made a changed course offer to F108, after the examination results, if they fail to gain the required number of points for their first choice course.

#### **Further Information**

Please contact Mary Robinson at Carmel College on (01744) 452200. Alternatively, contact Marie Kendrick (Degree Administrator) on (01744) 452213 or e-mail: [degree@carmel.ac.uk](mailto:degree@carmel.ac.uk);