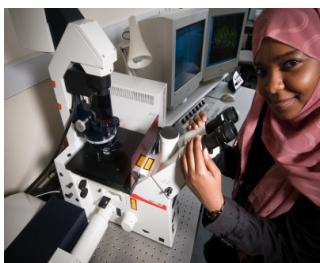
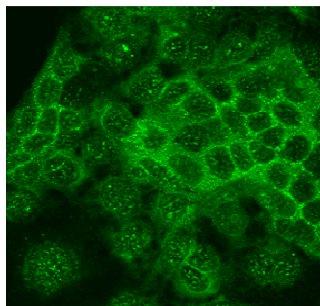




BSc Biochemistry (Honours) C700 and C702



Biochemistry is the study of the structure and function of living organisms at the molecular level. This is an exciting and rapidly expanding field which has been at the forefront of advances in biology and medicine. Our flexible Biochemistry degree provides students with core modules in Biochemistry coupled with a solid background in other related fields such as genetics and cell biology. This training in all aspects of Biochemistry is important when considering the multidisciplinary and interactive nature of today's scientific work environments. In the later parts of the course students can choose modules, techniques courses and projects in specialised areas of Biochemistry to suit their own interests.

Course options. Students may choose to study at an overseas University for the second year of this course (C702; see separate Study Abroad leaflet for details).

Entry requirements. Typically ABB at A-level (AAB for the Study Abroad scheme) for entry from the sixth form with at least two science subjects from Biol / Chem / Geog / Maths / Phys / Psych and a minimum of AS-level chemistry, or equivalent 2A- plus 2AS-levels. Applicants with other types of qualification should enquire for details.

Specialist facilities. Biochemistry is at the heart of Lancaster University's research and teaching priorities. The university has a long history of highly rated biological research at the biochemical and molecular

level and the Division of Biomedical and Life Sciences in the School of Health and Medicine is ranked joint 1st in the UK for Allied Health Professions and Studies research. Current interests include cellular response to DNA damage, molecular analysis of corneal transparency, proteins involved in the lubrication of joints, molecular mechanisms of neuron destruction in Alzheimer's disease, food poisoning bacteria, and cellular signalling. Due to our high level of research funding and activity in these areas, our students are exposed to up-to-date research facilities and have a wide choice of final year projects. Lectures, practicals and workshops will take place in our state-of-the-art teaching facilities.

Careers information. This degree will provide an excellent platform for research based careers in biochemistry, including further postgraduate study for MSc or PhD qualifications. In addition there are many opportunities in the pharmaceutical industry, the food industry, forensic science and research institutes that are accessible to our Biochemistry graduates. Traditionally our graduates enter a wide range of careers and the transferable skills acquired during this degree will make the graduate attractive to employers in many other areas such as management, finance and marketing.

Michael Whitehead:

"I have really enjoyed the first two years I have spent at Lancaster University. All of the staff are always willing to help and answer any questions. The course itself is extremely interesting and the research-based teaching means I will be equipped to pursue a career in research. I would recommend studying biochemistry at Lancaster University to anyone!"



Further information contact:

Telephone: 01524 593265

E-mail: admitbiol@lancaster.ac.uk

Web: <http://www.lancs.ac.uk/shm/bls/>

BSc Biochemistry (Honours)

C700 and C702

Year 1

In the first year of our Biochemistry degree, students take a total of 15 modules 10 of which are compulsory (**in bold**). Students may take the remaining 5 modules from those shown or take modules in another subject on offer at Lancaster. Assessment is through coursework, end-of-module tests and summer examinations.

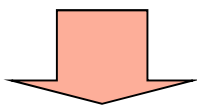
* Students with A-level chemistry may take two other modules in place of these

- **Cell Structure & Function**
- **Biotechnology**
- **Protein Biochemistry**
- **Impact of Microbes**
- **Genetics**
- **Molecules of Life**
- **Physical Chemistry for Life Sciences**
- **Organic Chemistry**

- **Spectroscopy & Bioinorganic Chemistry**
- **Experimental Design & Data Analysis**
- Evolutionary Biology
- Variety of Life
- Aquatic Ecology
- Life in a Changing Environment

- Spanish Field Course
- Anatomy & Tissue Structure
- Atoms & Molecules*
- Introduction to Organic Chemistry*
- Infection & Immunity
- Hormones & Development
- Human Physiology

- Biodiversity & Conservation
- Environmental Issues for the 21st Century
- Interdisciplinary Skills
- Biomedicine & Society
- Diagnosis in Biomedical Science
- Introduction to Epidemiology



Year 2

In the second year of the degree students again take a range of compulsory modules designed to provide a detailed understanding of biochemical techniques and life processes. Modules are assessed through coursework, end-of-module tests and examinations. Exams take place in the summer term of the second year.

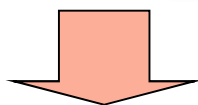
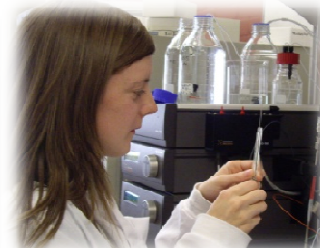


Compulsory Modules

- Biochemistry
- Biochemical Techniques
- Cell Biology
- Cell Biology Techniques
- Medical Microbiology
- Microbiological Techniques
- Genetics
- DNA Technology

Year Abroad Option

For students on the year abroad scheme (C702), the second year is spent at the overseas university



Year 3

In the final year of the degree students can choose to undertake a research project or a combination of laboratory project and literature review. They must also take the compulsory module combination shown in Group A (below) in addition to two further modules from each of groups B and C and one module from each of groups D and E. Exams take place in the summer term of the final year.

Group A (Compulsory)

- Cell Signalling 1 **OR** Cell Signalling 2
- Protein Biochemistry
- Molecular & Biochemical Parasitology

Group B (Two Selections)

- Cell Signalling 1
- Genetics
- Immunology
- Electrochemistry & Kinetics

Group C (Two Selections)

- Cell Signalling 2
- Medical Genetics
- Tropical Diseases
- Neurobiology
- Phase Equilibria & Thermodynamics

Group D (One Selection)

- Cell Cycle & Stem Cells
- Cancer
- Ethics in Biomedicine
- Transition Metal Chemistry

Group E (One Selection)

- Biology of Ageing
- Environmental Pathogens
- Organic Photochemistry