School of Health & Medicine

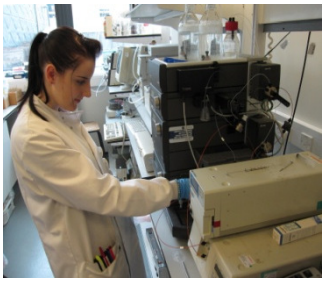
LANCASTER UNIVERSITY

Division of Biomedical and Life Sciences Degree Schemes

BSc Biomedical Science (Honours)

B990

ACCREDITED IBMS UNIVERSITY



The Biomedical Science course is aimed at students with a broad interest in human life processes and disease. It involves the study of subjects such as biochemistry, cell biology, genetics and physiology which are at the heart of modern medical research. These subjects are taught with a particular emphasis on the molecules and mechanisms fundamental to life processes and how these are disrupted by disease. Students also receive a thorough grounding in the techniques and issues associated with modern biomedical research. The degree is accredited by the Institute of Biomedical Science adding further prestige to the degree scheme for students wishing to continue in related professions upon graduating. The course is taught jointly with clinical and biomedical staff from local hospitals. At the start of the second year, students can opt to apply for a four year work experience version of the degree scheme (subject to student performance and placement availability).

Entry requirements. For entry from the sixth form, requirements are typically ABB at A-level with at least two science subjects, e.g. Biol / Chem / Maths / Phys / Geog / 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. Biomedical Science is at the heart of Lancaster University's research and teaching priorities. 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.

Our research interests include, familial predisposition to breast cancer, cellular response to DNA damage, leukaemia, joint destruction in arthritis, Alzheimer's disease, food poisoning bacteria, metastatic spread of cancer, and the biochemistry of corneal disease. 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. We also have extensive links with clinical and biomedical staff from hospitals at the local and national level.

Careers information. Clearly one of the objectives of this degree scheme is to open career avenues for those students who have a particular interest in the biochemistry of human diseases / conditions. However, due to the teaching of fundamental biological science subjects such as biochemistry and molecular biology, the degree will also provide an excellent platform for other research based careers in biomedicine, including further post-graduate study for MSc or PhD qualifications. In addition, there are many opportunities in industry, in particular the pharmaceutical industry. 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.

Ben Harris:

"'I enjoyed my time at Lancaster as it has a relaxed community atmosphere and a scenic campus. The Biomedical Science course enabled me to study subjects which were more medically orientated and to obtain crucial laboratory practical skills. These aspects of my learning at Lancaster subsequently enabled me to complete a one year Masters by Research course at the University and then to enter graduate medicine at Warwick"

Further information contact:

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Year 1
In the first year students take a total of 15 modules. Owing to the specialised nature of this degree, all modules are compulsory. Assessment is through coursework, end-of-module tests and summer examinations.

- Introduction to Biomedical Science
- Anatomy & Tissue Structure
- Infection & Immunity
- Hormones & Development
- Human Physiology

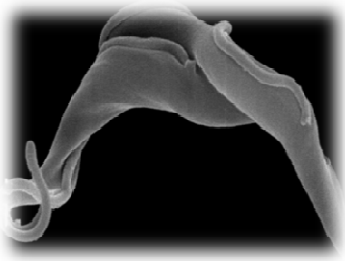
- Molecules of Life
- Cell Structure & Function
- Genetics
- Biotechnology
- Protein Biochemistry

- Impact of Microbes
- Experimental Design & Data Analysis
- 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 normal biochemical 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

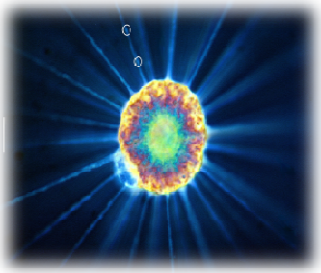
- Biochemistry
- Clinical Biochemistry
- Cell Biology
- Cellular Pathology
- Medical Microbiology
- Haematology & Transfusion Science
- Genetics
- Practical Physiology



Optional third year placement

At the start of the second year of the degree, students can opt to apply for a third year work experience placement (subject to student performance and placement availability)

Final Year
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 modules shown below which are designed to provide an understanding of how normal biochemical life processes are disrupted under disease conditions. Exams take place in the summer term of the final year.



Compulsory Modules

- Cell Signalling 1
- Cell Signalling 2
- Immunology
- Medical Genetics
- Cell Cycle & Stem Cells
- Cancer
- Pathobiology
- Environmental Pathogens