

Applied Biomedical Health BSc (Hons)

UCAS Code: C608 | Duration: 3 years | Full-time | Hope Park | 2021/2022

Placement year opportunities available | Study Abroad opportunities



Course Overview

Applied Biomedical Health at Liverpool Hope encompasses a comprehensive and integrated knowledge of key bioscience subjects, focused on gaining a biomedical understanding of the human body and the factors that affect human health and the manifestation of diseases. The key subject areas include anatomy and physiology, cell and molecular biology, biochemistry, genetics, immunology, medical microbiology, health and wellbeing, exercise science and clinical nutrition, as related to human health, disease and treatment. Undertaking this degree will enable you to develop a range of standard and applied laboratory, specialist practical and transferable skills, which will prepare you for lifelong learning, postgraduate study, or a wide range of employment opportunities in the biomedical sciences.

Based within the School of Health Sciences, you will be able to pursue the areas of science that interest you most in the multi-million pound Health Sciences Building and its dedicated and well-equipped teaching labs and research spaces. You will be taught by widely published, research-active academics, who will bring you an enhanced learning experience and facilitate your scholarly development. Small-size, student-centered teaching sessions are a feature at Liverpool Hope and you will benefit from this through greater opportunities for practical work and the application of knowledge to real-world scenarios.

Entry Requirements

The standard offer level is 112 UCAS tariff points.

Applicants should have a Science A Level (or equivalent), plus GCSE English, Mathematics and either Double Award Science or Biology GCSE.

Fees and Additional Costs

The tuition fees for 2021/2022 are £9,250 for full-time undergraduate courses.

If you are a student from the Isle of Man or the Channel Islands, your tuition fees will also be £9,250. The University reserves the right to increase Home and EU Undergraduate and PGCE tuition fees in line with any inflationary or other increase authorised by the Secretary of State for future years of study.

You will also need to consider the cost of your accommodation each year whilst you study at university.

Visit our accommodation webpages for further details about our Halls of Residence:
www.hope.ac.uk/halls



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Applied Biomedical Health BSc (Hons) Curriculum

Year One

Introduction to Applied Biomedical Health

This will provide you with a broad, core foundation of knowledge covering the major themes in biomedical health, including biochemistry, human health and wellbeing, and medical physiology. This course will have an emphasis on the underlying biochemical processes and integrated functioning of the normal human body. Knowledge and understanding will be applied to the medical context where dysfunction from disease and ageing follows on naturally from normal function. The course will also introduce human health and wellbeing, while the development of biomedical lab skills will be supported by a comprehensive practical programme.

Introduction to Human Biology

You will be introduced to the biological knowledge and understanding of the structure and function of the human body and how it works. All major body systems will be explored, from the cellular and molecular level, through to whole organs and systems integration. Students will also be introduced to principles of biochemistry and organic chemistry, and the study of heredity, genetics and human variation. Research methods are integrated both within lectures, seminars and tutorials, with rigorous application of scientific method underpinning all activities. Practical skills are pivotal; students will learn, consolidate and practice their skills each week in the laboratory.

Year Two

Explorations in Applied Biomedical Health

You will acquire an advanced understanding of the underlying principles of human health and disease from a cellular perspective. Taking a more applied approach, the response of the human body to external factors such as exercise and nutrition will also be studied. Medical microbiology will introduce how various pathogens and their actions affect health and disease. Explorations in Biomedical Health will also

incorporate research methods and data handling in addition to advanced practical techniques in Applied Biomedical Health.

Explorations in Human Biology

Building on the foundations of first year, you will begin the more detailed study of the integrated function of the human body and the biological changes that occur through dysfunction or disease. The pathophysiological concepts will be introduced from a variety of perspectives and will include exploring metabolic biochemistry, molecular and cellular biology, disease pathology, microbiology and epidemiology in more depth. You will learn through both lectures and more advanced practical laboratory activities.

Year Three

Advanced Studies in Applied Biomedical Health

This will provide in-depth knowledge and critical understanding of the diagnostics, treatment and monitoring of selected disorders and diseases from an immunological and genetic perspective. A strand on blood and haematology will provide knowledge of the diagnosis and management of some blood disorders. While exercise and chronic disease will be the final theoretical component.

Advanced Studies in Human Biology

You will develop an excellent understanding of the mechanisms by which diseases affect the human body and how pharmacological therapy targets and treats contemporary medical conditions. The curriculum incorporates the research specialisms of the teaching team, such as ageing, dementia, obesity, cardiovascular disease, genetics, pharmacology and clinical drug treatments for the future.

Applied Biomedical Health Dissertation

The final year research dissertation brings together experimental planning, practical data collection, data analysis and interrogation, critique of literature and presentation skills, all of which have been developed throughout the course of the undergraduate degree programme.

COURSE STRUCTURE

Teaching on this degree is structured into lectures, where all students are taught together, seminars and lab practicals of smaller groups of around 15 - 20 students, and tutorials that typically have no more than 10 students. Lab practicals are a strong feature of the course and you typically be taught in this environment 2-3 hours every week.

On top of teaching hours, first year students may take part in a short fieldtrip to the University's Plas Caerdeon outdoor education facility in North Wales.

In your first year of study, there are approximately 12 teaching hours each week, which reduces to approximately 10 teaching hours in your second and third years. On top of usual teaching hours, you are also expected to spend approximately 30 hours studying independently each week, as well as studying in groups to prepare for any group assessments that you may have. Staff are available for 3 hours per week for one-to-one tutorial meetings in their office hours.

ASSESSMENT AND FEEDBACK

You will have a number of coursework assessments, as well as examinations in the summer term of the second and third year. These exams are typically worth 25% of those years.

Assessments are wide-ranging in design and format, enabling you as the learner to excel. Assessment types include: scientific/laboratory reports, critiques, essays, individual and group oral presentations, portfolios, MCTs, case studies, and practical laboratory tests. We provide comprehensive online feedback for all coursework.

In your third year, you will complete a dissertation in Applied Biomedical Health. This will allow you to specialise in a particular topic of interest, whilst being guided through the process by an expert in the field.



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