Health and Medicine

Introducing our Faculty

Lancaster’s Faculty of Health and Medicine is highly regarded for teaching and research both within the UK and globally. Our departments are highly ranked in the major university league tables and The National Student Survey 2013 showed 100% of our Biology students were satisfied with their courses.

We are proud of our reputation for excellence in research, our undergraduate programmes and our flagship Lancaster Medical School.

The Complete University Guide 2014 ranks Biological Sciences at Lancaster in the top ten in the UK and The Times Good University Guide 2014 ranks us eighth.

Our research expertise spans neurodegenerative disease, cancer biology, microbiology, immunology, epidemiology, mental health and disability. The most recent Research Assessment Exercise in 2008 ranked Lancaster’s Biomedical and Life Sciences first in the UK and rated 95% of the research in The Division of Health Research as being of ‘international standing’. Lancaster Medical School has a wide range of researchers of international standing working in exciting and clinically relevant areas.

Contemporary approaches to health and medicine demand expertise from a combination of perspectives from medics, scientists and social scientists. So, we bring together researchers from different disciplinary backgrounds to provide an innovative blend of teaching and research across the health and medicine spectrum.

This multidisciplinary approach is complemented by significant research partnerships with all of the other Faculties and Schools within the University. For example, neuroscience (Psychology), medical ethics (Law), medical physics (Physics), NHS leadership (Management School), disability studies (Applied Social Science), chemistry (Science and Technology) and health (Lancaster Environment Centre).
The experience of different cultures and the contacts students establish during overseas study will add significantly to your degree studies.

Lab-based projects
During your degree, you’ll conduct your own laboratory-based project where you’ll benefit from the research experience of our internationally renowned academic staff.

Typical entry requirements
(See website for full details)

Biochemistry

A level: AAB
IB Diploma: 35 pts overall with 16 from best 3 HL subjects
BTEC: DDD

Required subjects: A minimum of AS level or SL Chemistry (at grade C) and 2 A levels/HLs from Bio/Human Biol/Geog/Maths/Physics/Psychology/Env.Sci/Computing or IT

Biochemistry with Genetics

A level: AAB
IB Diploma: 35 pts overall with 16 from best 3 HL subjects
BTEC: DDD

Required subjects: A minimum of AS level or SL Chemistry (at grade C) and 2 A levels/HLs from Bio/Human Biol/Geog/Maths/Physics/Psychology/Env.Sci/Computing or IT

Biochemistry with Biomedicine

A level: AAB
IB Diploma: 35 pts overall with 16 from best 3 HL subjects
BTEC: DDD

Required subjects: A minimum of AS level or SL Chemistry (at grade C) and 2 A levels/HLs from Bio/Human Biol/Geog/Maths/Physics/Psychology/Env.Sci/Computing or IT

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www.lancaster.ac.uk/biomedical-life-sciences

For a full list of compulsory and optional modules, visit www.lancaster.ac.uk/study/undergraduate/courses
Biological Sciences
BSc Hons/MSci Hons

Studying Biological Sciences at Lancaster offers you the opportunity to choose from a wide variety of options where you can focus on your areas of interest.

Biological Sciences is taught jointly by leading academics in the Lancaster Environment Centre and the Division of Biomedical and Life Sciences. Studying Biological Sciences at Lancaster offers you the flexibility and opportunity to study abroad and to choose from a wide variety of options where you can focus on your areas of interest. Two thirds of our graduates pursue careers related to their degree while the transferable skills you gain open up additional opportunities in alternative career areas such as management and commerce.

BSc Hons Biological Sciences
UCAS code: C100

BSc Hons Biological Sciences (Study Abroad)
UCAS code: C102

MSci Hons Biological Sciences
UCAS code: TM66

Your degree
This degree offers you a diverse choice of modules in genetics, biomedicine, microbiology, ecology, physiology and conservation. You start your Biological Sciences degree studying modules such as Cell Structure and Function and Evolutionary Biology. The flexible nature of the course enables you to transfer to one of our more specialised degree programmes after your first year.

In your second year you will take modules including Medical Microbiology and Populations to Ecosystems. If you take our Study Abroad variant, you will spend the year studying at a partner university in the USA, Canada or Australia. In your final year we offer you courses including Biology of Ageing and Global Change Biology.

If you chose to take our new four-year MSci Hons course you will follow the same curriculum as the students studying the BSc course but will have the opportunity to focus on particular areas of interest to you in your final year. You will also carry out an extended laboratory or field-based project.

Our links with external research institutions, such as hospitals and industrial laboratories, add even greater texture to your experience.

BSc Hons Biology with Psychology
UCAS code: C1C8

Your degree
Taught jointly by our Biology tutors and academics from the Department of Psychology, this degree explores the biological processes which underpin human behaviour. You will gain a core knowledge of Biology and Psychology and can choose from a wide selection of modules, starting with modules such as Human Physiology and Cognitive Psychology in your first year and moving on to modules including Genetics and Brain and Behaviour in your second year. Animal Behaviour and Advanced Neuropsychology are options in your final year. Both elements of this degree programme equip you with a range of transferable communication, analytical and interpersonal skills.

Your career
Your biology training is relevant for careers in academic, industrial or medical research and opens up opportunities in the pharmaceutical and food industries or in environmental consultancy. Around half of our graduates use their skills in a commercial setting while half pursue work in scientific, teaching or caring professions.

For a full list of compulsory and optional modules, visit www.lancaster.ac.uk/study/undergraduate/courses
Biological Sciences with Biomedicine
BSc Hons

Studying Biological Sciences with Biomedicine at Lancaster gives you the flexibility to study a broad range of bioscience disciplines while learning specifically how Biology influences human disease and health.

Taught jointly by leading academics in the Division of Biomedical and Life Sciences and the Lancaster Environment Centre, you will develop knowledge and skills that open up various career and postgraduate study opportunities. 100% of Biological Sciences with Biomedicine students at Lancaster University were satisfied with their course, according to The National Student Survey 2013.

Your degree
A mainstream Biological Sciences degree with a bias towards human and disease-related topics. This degree is aimed at students with a broad interest in the biological sciences who have a specific interest in the biological mechanisms underlying the maintenance of human health or disease conditions.

The degree is designed to provide a broad grounding in bioscience subjects whilst maintaining an emphasis on specific biomedical topics. You'll also receive in-depth training in the key techniques associated with modern biological and biomedical practices by taking a series of techniques courses, some of which are taught by staff from a local hospital.

Year 1
In your first year, you'll study core Biomedical Science subjects such as Genetics and Diagnosis in Biomedical Science. You'll also choose from other bioscience modules, such as Evolutionary Biology, Aquatic Ecology, Organic Chemistry, and Biomedicine and Society. Such diversity allows you to specialise in the more biomedical aspects of the course in later years or to transfer to a completely different field in the biosciences.

Years 2 and 3
Similarly, the second year of your course gives you the choice between more biomedically-oriented subjects, such as Medical Microbiology and DNA Technology, or subjects such as Evolution and Environmental Physiology.

In your final year, you can tailor your degree to your own interests by selecting from a diverse range of subjects including Cell Signalling, Environmental Pathogens, Tropical Diseases, and Immunology. During your degree, you'll conduct your own laboratory-based project where you'll benefit from the research experience of our internationally renowned academic staff.

Your career
Our graduates find career opportunities in the pharmaceutical industry, the food industry, forensic science and research institutes. The transferable skills acquired during this degree make our graduates attractive to employers in many other areas such as management, finance, teaching and marketing.

This degree will also provide an excellent platform for research-based careers in Biology and Biomedicine, including further postgraduate study for MSc or PhD qualifications.

UCAS code
C189

Typical entry requirements
(See website for full details)
A level: AAB
IB Diploma: 35 pts overall with 16 from best 3 HL subjects
BTEC: DDD
Required subjects: 2 A levels or HLs from Biol/Human Biol/Chem/Geog/Maths/Physics/Psychology

Contact details
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Biomedical Science

BSc Hons Biomedical Science

Lancaster’s Biomedical Science degree schemes are taught within a Division ranked joint first in the UK for Allied Health Professions and Studies research by the most recent Research Assessment Exercise, 2008.

Biomedical Science at Lancaster gives you the opportunity to gain an in-depth understanding of subjects such as Biochemistry, Cell Biology, Genetics and Physiology and develop a thorough grounding in the techniques and issues associated with modern biomedical research. Students will explore how biochemical knowledge can be used to develop treatments for diseases and graduates can look forward to research-based careers in industry.

**BSc Hons Biomedical Science (IBMS Accredited)**
UCAS code: B990

**Your degree**
Lancaster’s Biomedical Science degree is accredited by the Institute of Biomedical Science (IBMS) and provides a thorough grounding in the theory and laboratory techniques associated with Biomedical Science—a subject dealing with the study of life processes within the context of human health and disease.

Our degree is designed to focus on the key aspects of modern day biomedicine. It is ideal for students with a broad interest in human life processes and disease as teaching places an emphasis on the molecules and mechanisms fundamental to life processes and how these are disrupted by disease.

**Year 1**
You’ll begin your degree with the study of 15 wide-ranging modules, including an Introduction to Biomedical Science, Biomedicine and Society, and Diagnosis in Biomedical Science.

**Years 2 and 3**
In the second year of your course, you’ll move on to study subjects such as Biochemistry, Cellular Pathology, and Medical Microbiology. Finally, in this highly specialised degree scheme, you’ll focus even more on aspects of human disease by taking modules in Cancer, Medical Genetics, and Pathobiology.

As part of your Biomedical Science degree, you will also carry out a laboratory-based project and can draw on the expertise of our academic staff to develop the research experience. This includes research into skin, colorectal, breast and prostate cancers; Alzheimer’s and Parkinson’s diseases; arthritis; hydrocephalus and other human conditions and diseases.

**Your career**
Our IBMS accredited degree is a pathway to employment as a Biomedical Scientist in the NHS. Also this particular degree opens up research-based careers in the biochemistry of human diseases and conditions, as well as in biomedicine. In addition to postgraduate study for MSc or PhD qualifications, there are many opportunities in management, finance, marketing and the pharmaceutical industry with recent graduates employed by GlaxoSmithKline and Alcon Laboratories.

For more information please go to www.lancaster.ac.uk/healthandmedicinobiomedicsciences

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**BSc Hons Biomedicine (Flexible Scheme)**
UCAS code: C701

**MSCi Hons Biomedicine (Flexible Scheme)**
UCAS code: C703

**Your degree**
These degree schemes offer more flexibility than our IBMS-accredited Biomedical Science degree, with the added possibility of completing a four-year integrated masters. You can enrol on either the MSci or the BSc degree scheme, subject to the necessary entrance requirements, and may be able to transfer between degrees at a later stage. Progress/transfer to the fourth year of the MSci degree is subject to peer competition and requires an overall performance equivalent to upper second class. Students failing to meet this requirement, but who fulfil the necessary criteria for the award of an honours degree, will graduate with a BSc Honours in Biomedicine.

These Biomedicine degrees are aimed at those with a broad interest in human life processes and disease. They involve the study of subjects such as biochemistry, cell biology, genetics and physiology which are at the heart of modern medical and health 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.

**Year 1**
You’ll begin your degree with the study of 15 wide-ranging compulsory modules, including an Introduction to Biomedical Science, Infection and Immunity and Protein Biochemistry.

**Year 2**
In the second year of your course, you’ll move on to study subjects such as Medical Microbiology, Cellular Pathology and Cell Biology Techniques.

Years 3 and 4
On the BSc programme, you will continue into your third and final year studying modules such as Medical Genetics, Ethics in Biomedicine and Pathobiology. If you achieve the necessary criteria to proceed to the fourth year of the MSci degree, you will study Immunology, Diseases of the Brain and Molecular Basis of Cancer plus one other optional module and a research project.

You will also receive in-depth training in the key techniques associated with modern biomedical practices.

**Your career**
These degrees provide an excellent platform for research-based careers in biology and biomedicine, including further postgraduate study. In addition, there are many opportunities in the pharmaceutical industry, the food industry, forensic science and research institutes. Traditionally, our graduates enter a wide range of careers, and the transferable skills acquired during this degree will make graduates attractive to employers in many other areas such as management, finance, teaching and marketing.

For full list of compulsory and optional modules, visit www.lancaster.ac.uk/study/undergraduate/courses

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**Health and Medicine – Biomedical Science**

**BSc Hons Biomedical Science**
UCAS code: C701

**MSCi Hons Biomedical Science**
UCAS code: C703

**Your degree**
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**UCAS codes**
See courses and website for relevant codes

**Typical entry requirements**
(See website for full details)

**Biomedical Science**
A level: AAB
IB Diploma: 35 pts overall with 16 from best 3 HL subjects
BTEC: DDD
Required subjects: A minimum of AS level or SL Chemistry (at grade C) and 2 A levels/HLs from Biol/Human Biol/Geog/Maths/Physics/Psychology/Env. Sci/Computing or IT

**Biomedical Science (BSc)**
BTEC: DDD (MSci DDD)
Required subjects: A minimum of AS level Chemistry and Biol/Human Biol and 2 A levels/HLs from Biol/Human Biol/Geog/Maths/Physics/Psychology/Env. Sci/Computing or IT

**Contact details**
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www.lancaster.ac.uk/biomedical-life-sciences
You will be based at Lancaster University throughout your Medicine and Surgery degree course but from year 2 onwards, you will spend most of your time on clinical placement in hospitals and local GP practices. Graduate career options include clinical practice, public health and medical research.

Your degree
Your Medicine and Surgery course (MBChB) will be delivered through a problem-based learning structure with early patient contact. Lancaster Medical School admits 54 students per year to our five-year programme that combines a problem-based learning structure with early patient contact.

Year 1
You’ll begin your degree with the Foundation of Medicine, where you will learn key concepts in biomedical and social science. You’ll also choose the first of four Special Study Modules (SSMs) to study.

Year 2, 3 and 4
For the next three years, you’ll continue your studies learning how to diagnose and manage illness. You will develop your knowledge and skills through interaction with patients, spending time on clinical placement for most of your second year and throughout your third and fourth years.

In your second and third years, you will continue to pursue your own areas of interest through three more SSMs. At the end of your fourth year, you’ll undertake your Elective, which includes the opportunity to study abroad.

Year 5
Throughout your final year you will gain intensive clinical experience in hospitals and the community to prepare you for your future career as a doctor. You’ll undertake five different rotations, two of which are Selectives in Advanced Medical Practice (SAMPs). You can choose to follow SAMPs in a wide variety of clinical specialities, giving you the opportunity to explore different potential medical careers during the course of your undergraduate degree.

Your career
Most medical graduates work in clinical practice, either in hospitals or in the community. There are more than 60 different clinical specialities to choose from. All medical graduates that work in clinical practice must undertake specialist postgraduate training to prepare them for their chosen clinical speciality. Approximately half of all UK medical graduates work in general practice.

For those who decide against a career in clinical practice, the transferrable skills acquired during this degree prepare our graduates for a wide variety of possible careers in fields such as public health or medical research.

Applications and selection
Applications should be made to Lancaster University (Institution code L14) and the course code A100. There is no graduate entry code. Applications and selection is based on your record of previous academic achievements and other detailed information on your UCAS application. Evidence of healthcare experience and people skills – in the NHS or a care setting, for example – will be required.

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http://www.lancaster.ac.uk/fhm/divisions/med/study-with-us/mbchb/

For a full list of compulsory and optional modules, visit www.lancaster.ac.uk/study/undergraduate/courses

For more information please go to www.lancaster.ac.uk

UCAS code
A100 (Institution code L14)

Typical entry requirements
(See website for full details)

Typical A level offer: AAA
plus B in 4th AS subject

Required subjects:
A level Biology and Chemistry at grade A

IB Diploma: Biology, Chemistry and one other at Higher level (6, 6, 6 points), plus 3 subjects at SL (5, 5, 5 points) minimum points score 36

BTEC: Not accepted as preparation for this degree programme

GCSE: Minimum score of 15 points from 9 subjects (A or A* = 2 points; B = 1 point).
The 9 subjects must include Core & Additional Science (or Biology, Chemistry and Physics), Maths and English (grade B or above)

For more details, please visit
http://www.lancaster.ac.uk/fhm/divisions/med/study-with-us/mbchb/
Pre-Medical Studies
Cert HE

Lancaster’s Pre-Medical Studies course provides an opportunity for entry into medical education for intellectually able individuals.

This one-year course equips you with the intellectual and practical skills necessary for further study; prepares you for potential entry to medical school or direct second-year entry to Bioscience degrees at Lancaster, such as Biomedicine, Biochemistry, Biological Sciences and Natural Sciences, and provides knowledge and experience of careers within the NHS, through a non-assessed educational programme run by Morecambe Bay NHS Trust.

Your course
Our Pre-Medical Studies course is designed for students whose A level mix does not allow direct entry to Medicine, or whose circumstances affected their A level performance. It provides opportunities for students from a disadvantaged background or low achieving school or college as well as individuals who display a long term commitment to a career in medicine, for example mature students working in the NHS.

The course is designed to prepare you for successful entry to medical school and your subsequent career. Successful students on the course gain a Certificate in Higher Education.

There is the opportunity for selected students from this course to enter the first year of the medical degree at the University of Lancaster. Subsequent admission to the medical degree is dependent on academic performance on this course and a successful Medical School admissions interview. Currently interviews take place during the Lent term (May).

On this one-year course, students take a total of 15 modules covering a range of subjects including: Anatomy and Tissue Structure; Introduction to Biomedical Science; Genetics; Hormones and Development; Infection and Immunity, and Human Physiology.

Your career
If you continue on to a medical degree, you can look forward to a career in clinical practice, research, public health and more. Alternatively, transferring to and completing one of our Bioscience degrees will open doors in the pharmaceutical industry, the food industry, forensic science and research institutes.

Flexible admission...
Our qualifications criteria are flexible and evaluated case by case. While you will usually need A level points equivalent to AAB grades, we will also select you on your potential and suitability for medical training.

Now that the course is over I just wanted to thank you and let you know how much I enjoyed the course. The year at Lancaster exceeded my expectations in every way.

Adam Gold

For a full list of compulsory and optional modules, visit www.lancaster.ac.uk/study/undergraduate/courses