BIOSCIENCES

As a biosciences undergraduate student at the University of Westminster, you will benefit from some of the best teaching and facilities available. You will be part of the Faculty of Science and Technology, based at our purpose-built Cavendish Campus, ten minutes from Oxford Street.

The Faculty and Campus have benefited from a major programme of refurbishment, with more than £30million invested in creating state-of-the-art learning environments, laboratories and equipment. The Biochemistry BSc is recognised by the Royal Society of Chemistry.

Teaching and learning

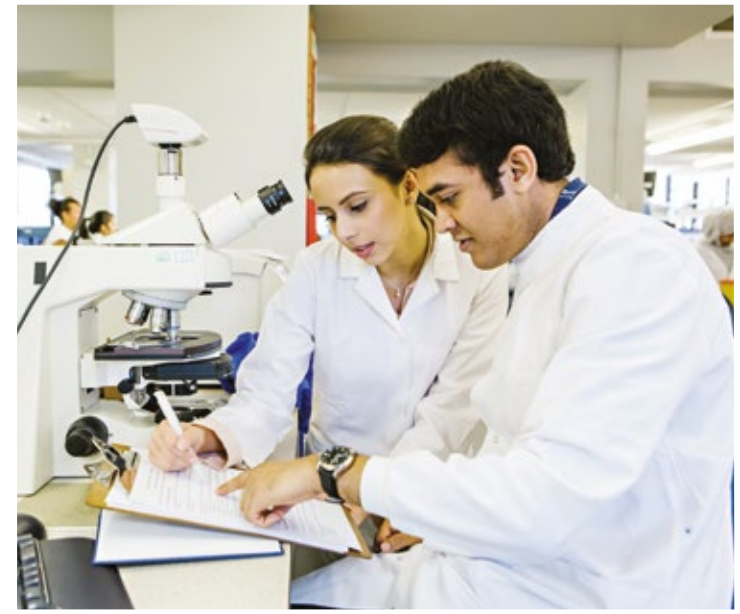
Our courses combine hands-on practical classes as well as laboratory simulations, lectures and tutorials. Our students are supported in activities outside the classroom, including the Life Sciences, Bioinformatics and Pharmacology Student Societies, collaborations with our Westminster School of Media, Arts and Design such as Broad Vision, and opportunities to take part in international competitions – for example iGEM, an international competition for synthetic biology.

Your laboratory and research skills will be developed throughout your degree, culminating in your final-year project in which you will undertake original research of your own. Personal tutoring in addition to student support services will help you to make a smooth transition to higher education.

Employability

Our biosciences courses prepare tomorrow's scientists for a wide range of careers, and recent graduates have gone on to work in fields as diverse as healthcare management, medical and forensic science, public health nutrition, pharmaceutical research, sales, financial management, and teaching. The courses will prepare you for professional working life, and provide you with the combination of technical knowledge and practical skills to meet the needs of industry, research or further study.

See also: Biomedical Sciences p56 • Imaging Art & Science p150



85% of our Biological Sciences graduates are in work or further study within six months

Data from DLHE 2014

Science laboratories and the library at Cavendish Campus

BIOCHEMISTRY
BSc HONOURS

Length of course: Three years full-time
UCAS code: C700
Campus: Cavendish (See p20)

Typical offer for September 2016: A Levels – BBC to include two science subjects from Maths, Chemistry, Physics and Biology; International Baccalaureate – 26 points to include a minimum of 4 in two Higher Level science subjects; Edexcel BTEC Level 3 Extended Diploma/Diploma – DMM/D*D* in Applied Science. See also entry requirements on p197.

Biochemistry is the study of living systems at the molecular level; it is a pivotal degree discipline and a fundamental element of all the biological sciences. Biochemists examine the structure and function of molecules in living systems, carrying out experimental investigations of the properties of biological systems (ranging from cell extracts to whole organisms) and clearly explaining the roles of specific genes within cells.

This course will give you the skills and knowledge to establish yourself in a range of careers related to biochemistry, including the pharmaceutical, diagnostic and biotechnology industries. The foundation of the course is our thriving research in diverse areas of biochemistry including biotechnology, cancer biology, membrane transport, molecular diagnostics and therapeutics, plant biochemistry, and protein structure.

You may also be interested in our Imaging Art and Science course, see p150.

For module information and further details, please visit:
westminster.ac.uk/biosciences

BIOLOGICAL SCIENCES
BSc HONOURS

Length of course: Three years full-time
UCAS code: C900
Campus: Cavendish (See p20)

Typical offer for September 2016: A Levels – BBC to include two science subjects, one from Maths, Physics, Chemistry and Biology, and one from Maths, Physics, Chemistry, Biology, Psychology, Geography and Economics; International Baccalaureate – 26 points to include a minimum of 4 in two Higher Level science subjects; Edexcel BTEC Level 3 Extended Diploma/Diploma – DMM/D*D* in Applied Science. See also entry requirements on p197.

A degree in Biological Sciences from Westminster will provide you with a world-class education, offering a flexible way to study the life sciences and enabling you to tailor your course to best suit your end goals and interests.

The course enables you to focus on molecular science or applied bioscience, or take a route designed specifically toward your own interests. We offer you the chance to explore cutting-edge topics in molecular biology and genetics, the urban environment, global challenges, pharmacology, and biological applications. With a passion for scientific enquiry, our modules are research driven. You will have the chance to select a final-year project, giving you experience in the latest methods and developments in medical and scientific research.

For module information and further details, please visit:
westminster.ac.uk/biosciences

"There are four floors of laboratories at Westminster and you get a substantial amount of practical work. One of the most important reasons I chose to study here was the third year experimental project. I wanted to have real laboratory experience, a real research project, with the chance of writing a paper that could possibly be published."

Darren Carty
Biological Sciences BSc Honours, second year

PHARMACOLOGY AND PHYSIOLOGY
BSc HONOURS

Length of course: Three years full-time
UCAS code: BB12
Campus: Cavendish (See p20)

Typical offer for September 2016: A Levels – BBC to include two science subjects from Biology, Chemistry, Physics and Maths; International Baccalaureate – 26 points to include a minimum of 4 in two Higher Level science subjects; Edexcel BTEC Level 3 Extended Diploma/Diploma – DMM/D*D* in Applied Science. See also entry requirements on p197.

Pharmacology is the science concerned with how drugs act and tells us how medicines treat diseases. Physiology describes how the body and its systems operate, not only in health but also in disease. Knowledge of the latter is therefore crucial for an understanding of the former.

At Westminster you will gain a sound understanding of the biological actions of drugs and other biomolecules at the whole-body, tissue, cellular and sub-cellular levels, and their use in medicines for the treatment of diseases. Central to the course is development of students' practical skills, offered within our research and teaching laboratories. Teaching is also extensively supported through use of the METI Patient Care Simulator, a novel teaching tool which allows realistic modelling of human physiology, and clinical responses of drugs administered to 'virtual' patients. Additionally, our course focuses upon the exciting areas of personalised medicine and new approaches to drug discovery.

For module information and further details, please visit:
westminster.ac.uk/biosciences