

BIOSCIENCES

As a biosciences undergraduate student at the University of Westminster, you will benefit from some of the best teaching and facilities available, with more than £30 million invested in creating state-of-the-art learning environments, laboratories and equipment.

Teaching and learning

Our courses combine hands-on practical classes with virtual laboratory simulations, lectures and tutorials. Our students have opportunities to study a language alongside their bioscience modules or take an interdisciplinary module in art and science. In addition to the classroom activities there are student societies for life sciences, bioinformatics, synthetic biology and pharmacology. There are opportunities for students to take part in the international iGEM synthetic biology competition and the Antibiotics Unearthed project, both of which give you extensive laboratory, as well as science communication and outreach experience.

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. A personal tutor will mentor you throughout the degree, initially helping you to make a smooth transition to higher education, and then providing academic advice and monitoring your professional development throughout your course.

Employability

Our biosciences courses prepare tomorrow's scientists for a wide range of careers. We provide extracurricular support focussing on career development in conjunction with our Careers and Employability Service. Recent graduates have gone on to work in fields as diverse as medical research, molecular and forensic science, pharmaceutical development, science communication and policy, financial management and teaching. Many graduates also go on to further postgraduate studies and research degrees. Our courses will equip you for professional working life and give you the combination of technical knowledge and practical skills that you need to succeed in industry, research or further study.

Foundation pathway

We offer Foundations as a route onto some of our undergraduate programmes. For module information and any further details, please visit: westminster.ac.uk/foundation-courses

See also: Biomedical Sciences p54



100%
of our
Pharmacology
and Physiology
students are
satisfied with
the quality of
the course

Data taken from unistats.ac.uk in December 2017



Science laboratories at Cavendish Campus

BIOCHEMISTRY

BSc Honours

Length of course: Three years full-time

UCAS code: C700

Campus: Central London (see map p192)

Typical offer for September 2018: A Levels – BBC/A*A* 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; Pearson BTEC Level 3 Extended National Diploma/National Diploma – DMM/D*D* in Applied Science. We consider applications that reflect a mixture of Level 3 qualifications as long as they are equivalent to our typical offer requirements and include the Science requirements. See also entry requirements on p185.



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 and identify the roles of specific genes within cells by carrying out experimental investigation of biological systems ranging from cell extracts in test tubes to whole organisms, and *in silico* computer models.

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, genomics, molecular diagnostics and therapeutics, plant biochemistry, and protein structure.

The course is accredited by the Royal Society of Biology.

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



“I received a studentship funded by the British Society for Neuroendocrinology to investigate the reasons behind increased risk of stroke in men. This project gave me extensive knowledge about my research field and was really enjoyable, too.”

Alex Hughes
Biochemistry BSc Honours, student

BIOLOGICAL SCIENCES

BSc Honours

Length of course: Three years full-time

UCAS code: C900

Campus: Central London (see map p192)

Typical offer for September 2018: A Levels – BBC/A*A* 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; Pearson BTEC Level 3 Extended National Diploma/National Diploma – DMM/D*D* in Applied Science. We consider applications that reflect a mixture of Level 3 qualifications as long as they are equivalent to our typical offer requirements and include the Science requirements. See also entry requirements on p185.



Biological science is about understanding the challenges faced globally and in our society and applying bioscience to help overcome these. The course covers the diversity of organisms, molecular science, applied bioscience and human biology. We offer you the chance to explore cutting-edge topics in molecular biology and genetics, the urban environment, global challenges, microbiology and biological applications. With a passion for scientific enquiry, our modules are research driven, training you to communicate bioscience to a range of audiences.

This course offers a range of option modules providing a more flexible way to study the life sciences and enabling you to tailor the course towards your interests. Alongside the bioscience teaching, you will develop a range of transferable skills enabling you to succeed in the workplace and there is an opportunity to take a work experience and career management skills module.

The course is accredited by the Royal Society of Biology.

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



“I could have never asked for better teaching, facilities or opportunities to develop my skills during my time here.”

Kyle Bowman
Biological Sciences BSc Honours, graduate

PHARMACOLOGY AND PHYSIOLOGY

BSc Honours

Length of course: Three years full-time

UCAS code: BB12

Campus: Central London (see map p192)

Typical offer for September 2018: A Levels – BBC/A*A* 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; Pearson BTEC Level 3 Extended National Diploma/National Diploma – DMM/D*D* in Applied Science. We consider applications that reflect a mixture of Level 3 qualifications as long as they are equivalent to our typical offer requirements and include the Science requirements. See also entry requirements on p185.



Pharmacology is the science of how drugs act and 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, together with their use in treatment of diseases. Central to the course is development of students' practical skills, offered within our research and teaching laboratories. Teaching also makes extensive use of the APOLLO Patient Care Simulator, a cutting edge 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, pharmacogenomics and new approaches to drug discovery.

The course is accredited by the Royal Society of Biology.

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



“Thank you for the continued support you provided me with throughout my time at the University. I would also like to thank the team for delivering stimulating lectures.”

Rami Fakhoury
Pharmacology and Physiology BSc Honours, graduate,
British Pharmacological Society Prize recipient

