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 focusing 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 p60
**BIOCHEMISTRY**
BSc Honours

Length of course: Three years full-time
UCAS code: C900
Entry requirements: A levels – CCC/BBB to include two science subjects from Biology, Chemistry, Physics and Maths; International Baccalaureate – 24 points; BTEC Extended Diploma – MPP/MMM; BTEC Diploma – MM/DM; Overseas students require IELTS of 6.0 overall, with 5.5 in each component. See also p198.

For full and most up-to-date information, see course web page: westminster.ac.uk/biosciences

Our degree courses with Foundation year offer the opportunity to prepare you for advanced study before you progress onto a full honours degree at the University of Westminster. Whether you do not feel ready for degree-level study, don’t have the right qualifications, want to change your subject specialism or return to study after an absence from education, we aim to encourage a broad range of students to undertake our Foundation year in order to progress onto their full honours degree with us.

The Foundation year is designed to give you the opportunity to explore new ideas, opening up new perspectives on the key debates within your chosen field. The Foundation year is a more accessible route to university study, enabling you to tailor the course towards your interests. Our modules are research driven, training you to communicate bioscience to a range of audiences.

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.

"Studying here has truly changed who I am today and I am extremely grateful for that. I had the opportunity to experience things that I never thought I would and meet people that I never thought I would meet. Westminster has expanded my mind and made me truly appreciate this world that we are living in!"

Dain Son
Biochemistry BSc Honours, student

**BIOLOGICAL SCIENCES**
BSc Honours

Length of course: Three years full-time
UCAS code: C900
Entry requirements: A levels – CCC/BBB 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 – 27 points to include a minimum of 4 in two Higher Level science subjects; BTEC Extended Diploma – DDM/DM/M; Overseas students require IETLS of 6.0 overall, with 5.5 in each component. See also p198.

For full and most up-to-date information, see course web page: westminster.ac.uk/biosciences

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.

"I thank the University for the opportunities you have given us, from volunteering to internships abroad. What I liked most is that it felt like everything I have learnt I applied in my job in a clinical setting."

Laetitia Joelyne D’Er Ivanova
Biological Sciences BSc Honours, student

**PHARMACOLOGY AND PHYSIOLOGY**
BSc Honours

Length of course: Three years full-time
UCAS code: BB12
Entry requirements: A levels – BBB to include two science subjects from Biology, Chemistry, Physics and Maths; International Baccalaureate – 27 points including 2 Higher level science subjects; BTEC Extended Diploma – DDM/DM/M; BTEC Diploma – D*D* Overseas students require IETLS of 6.0 overall, with 5.5 in each component. See also p198.

For full and most up-to-date information, see course web page: westminster.ac.uk/biosciences

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.

"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 Falkhouy
Pharmacology and Physiology BSc Honours, graduate, British Pharmacological Society Prize recipient

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**BIOSCIENCES FOUNDATION YEAR**

UCAS codes:
- Biochemistry with Foundation BSc Honours C701
- Biological Sciences with Foundation BSc Honours C900
- Pharmacy and Physiology with Foundation BSc Honours BB21

Campus: Central London (see map p206)

Entry requirements: A levels – DDD/DDD, International Baccalaureate – 24 points, BTEC Extended Diploma – MPP/MMM; BTEC Diploma – MM/DM; Overseas students require IELTS of 6.0 overall, with 5.5 in each component. See also p198.

For full and most up-to-date information, see course web page: westminster.ac.uk/biosciences