



**QUEEN'S
UNIVERSITY
BELFAST**

SCHOOL OF
MEDICINE,
DENTISTRY AND
BIOMEDICAL
SCIENCES

**RANKED 4TH IN THE
UK FOR HEALTH AND
BIOMEDICAL SCIENCES***

BSc BIOMEDICAL SCIENCE

* Times Higher Education REF 2021 Subject Rankings

BSc BIOMEDICAL SCIENCE

- Our Biomedical Science degree enables you to explore the sciences related to medicine and in particular, the specialist disciplines of diagnostic Biomedical Science as practised in Health Service Laboratories.
 - The degree is accredited by the Institute of Biomedical Science
 - The School has established links with two universities in the USA - the University of Nevada in Reno and the University of Vermont, and students have the opportunity to work in their research laboratories for a year between second and final year.
 - Students will benefit from research projects based in the world-leading Wellcome-Wolfson Institute for Experimental Medicine. This centre concentrates Biomedical scientific research on eye disease, diabetes, and the genetics of complex chronic diseases.
- **American High School Diploma** with a minimum GPA of 3.0 on a scale of 4.0 plus 1290 in SAT 1 tests (with a minimum of 620 in Mathematics, and 650 in Evidence-Based Reading and Writing) or 27 in ACT and a minimum of two Advanced Placement (AP) Tests with scores of 5,4 in Chemistry and Biology in any order. SAT subject tests may be acceptable in lieu of APs.
 - **Singaporean Diploma in Biomedical Sciences:** applicants with a minimum overall GPA of 3.0 on a scale of 4.0 (Grade B), and Grade B (3.0) in all relevant subjects may be considered for admission to Stage 2 of the BSc Honours Biomedical Science degree. Other Singaporean Diplomas completed with appropriate grades may be considered on a case-by-case basis.
 - Alternative equivalent academic qualifications may be considered and suitably qualified students can be awarded advanced entry to the second year of the BSc (Hons) Biomedical Science Degree programme.
 - The University can support applications for Federal loans.

English Language

- IELTS Academic: overall score of 6.5 in IELTS, with a minimum band score of 5.5 in each component
- TOEFL IBT: overall score of 90, with not less than 17 – Listening; 18 – Reading; 20 – Speaking; 17 – Writing
- INTO English for Academic Purposes Grade B, with not less than Grade D in any component
- Cambridge GCE O Level English Language syllabus 1119 with a minimum grade C6.

Alternative English language qualifications may be acceptable - please see <http://go.qub.ac.uk/EnglishLanguageReqs>

The subject

Biomedical Science comprises the sciences related to medicine and in particular the specialist disciplines of diagnostic Biomedical Science as practised in Health Service Laboratories:

- Clinical Bacteriology and Immunology
- Clinical Biochemistry
- Haematology and Transfusion Science
- Histopathology and Cytology

The Biomedical Science programme at Queen's is based on a foundation knowledge at Stage 1 of Integrated Human Anatomy and Physiology, mammalian Biochemistry, Genetics and Molecular Biology, and Micro-organisms.

This theme is continued at Stage 2 with an integrated presentation of human disease mechanisms (Pathobiology), specialist knowledge of all the individual disciplines within diagnostic Biomedical Science (Biomedical Science in Practice), the core Biomedical Science subjects of Molecular Cell Biology and Molecular Genetics, and finally a stand-alone module in Immunobiology, which provides an underpinning for much of our teaching in human disease as well as modern assay techniques. The clinical disciplines of Clinical Biochemistry, Bacteriology, Haematology and Histopathology are further developed at Stage 3 in conjunction with a double module of individual research by every student in a final year laboratory project.

Graduate prospects

The BSc in Biomedical Science at Queens is aimed at students wishing to pursue a career in:

- Diagnostic laboratory science as Biomedical Scientists within the National Health Service.
- Clinical trials relating to drug registration and patents.
- Government or Charity-funded research laboratories
- Management careers in the Pharmaceutical or Biotechnology Industries
- Academic Research and Development.
- Postgraduate entry to Medicine, Dentistry, and allied health professions after gaining a strong scientific training at undergraduate level

School of Medicine, Dentistry and Biomedical Sciences

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The Biomedical Science courses are interesting and relevant, and taught by lecturers that are currently doing research in the field in which they teach. After completing a summer studentship for 8 weeks and working on my final year honours project, I am considering applying for an M.D./Ph.D. with a new found love of research. I would highly recommend Biomedical Science at Queen's.

Shannon Harkins, International Student (USA), Graduate, BSc Biomedical Science



RANKED 7TH IN THE UK FOR RESEARCH QUALITY FOR BIOMEDICAL SCIENCES
(Complete University Guide 2023)



RANKED 4TH IN THE UK FOR HEALTH AND BIOMEDICAL SCIENCES
(REF 2021)

Entrance Requirements

Academic

- **A-levels:** ABB/BBB. Two Science subjects including Biology/Human Biology or Chemistry (preferably both) + GCSE Mathematics Grade C/4 or equivalent + GCSE Biology and Chemistry Grade C/4 or equivalent
- **IB Diploma:** 33/32 points overall including 6, 5, 5 at Higher Level. Two Higher Level Science subjects at grades 6, 5 including Biology or Chemistry (preferably both) + GCSE Mathematics Grade C/4 or equivalent + GCSE Biology and Chemistry Grade C/4 or equivalent
- **Canadian High School Graduation Diploma** with 83% overall average at Grade 12. Two Science subjects (Grade 12) with a minimum of 80% including Biology or Chemistry (preferably both) + GCSE Mathematics Grade C/4 or equivalent + GCSE Biology and Chemistry Grade C/4 or equivalent.
- **Hong Kong Diploma of Secondary Education** with 5, 5, 4 in three Electives including Biology + normally Chemistry, plus 4 in Mathematics (compulsory component).

Note: Combined Science (Chemistry, Biology) with appropriate grades may be accepted in lieu of separate Biology + Chemistry Electives if taken in combination with another Science subject or Mathematics (Compulsory + Extended). Applicants with two Electives may be considered on a case by case basis.