

Biomedical Science

JOINT PROGRAMME WITH CIT

BSc (Hons)

College of Science,
Engineering and Food
Science



University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

Introduction

Biomedical Science is a continually changing profession and involves study of the diverse areas of medical science including biochemistry, microbiology, cellular pathology, haematology and transfusion science. It provides training in cutting-edge technologies to facilitate investigation of disease and medical research and prepares the student for a career in laboratory medicine.

Why Study

Biomedical Science is the term for the investigations carried out by biomedical scientists on samples of tissue and body fluids, to diagnose disease and monitor the treatment of patients. Biomedical Scientists work in partnership with doctors and other healthcare professionals. The aim of the Biomedical Science course is to educate students in biomedical sciences, including the state-of-the-art technologies used in hospitals and research laboratories. It also includes education and training in areas such as haematology and transfusion science, clinical biochemistry, medical microbiology and cellular pathology.

Work Placement

Clinical work placement is completed as part of the postgraduate Diploma in Clinical Laboratory Placement.

Careers

Graduates who have completed the BSc in Biomedical Science, followed by the postgraduate Diploma in Clinical Laboratory Placement, can work as medical laboratory scientists. Graduates can also work in related areas such as:

- the health-care industry
- biopharmaceutical industry
- research scientists.

Further Study

Graduates can apply for entry to a wide range of postgraduate programmes including:

- MSc Molecular Cell Biology
- MSc Biotechnology
- MRes
- PhD Science
- Medicine

CR320

DURATION 4 Years

APPROX. INTAKE 35

MINIMUM POINTS 2015 525*

LEAVING CERTIFICATE ENTRY

REQUIREMENTS HC3 in two subjects, and passes in four other subjects at H or O level from Irish, English, Maths, one laboratory science subject (Biology, Chemistry, Physics, Physics with Chemistry (joint) or Agricultural Science) and two other subjects recognised for entry purposes.

ADDITIONAL REQUIREMENT One of the HC3's must be obtained in a Laboratory Science subject (Biology, Chemistry, Physics or Physics with Chemistry (joint))

COURSE PAGE ONLINE www.ucc.ie/en/cr320

CONTACT INFORMATION

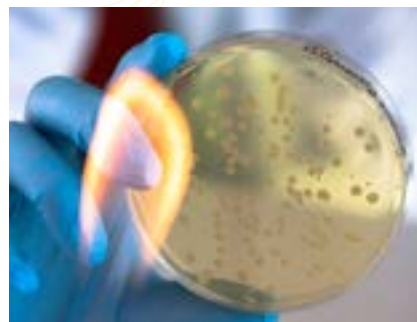
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**Finished on random selection*



#uccmakeyourmark

KEY FACTS

- The Biomedical Science degree course is offered jointly by University College Cork and Cork Institute of Technology.
- To be eligible to work as a Biomedical Scientist in a hospital laboratory, you must hold a BSc Honours degree in Biomedical Science (CR320), followed by the postgraduate Diploma in Clinical Laboratory Placement.
- The degree, in conjunction with the clinical placement, is accredited by both the Academy of Medical Laboratory Science and the Institute of Biomedical Science, allowing you to work as a Biomedical Scientist in hospital laboratories in Ireland, the UK and elsewhere.

Year 1 Modules

CORE (ALL ARE 5 CREDIT MODULES, EXCEPT FOR LAST MODULE): BM1001 & BM1002

Introduction to Biomedical Science I & II; **BM1003** Introduction to Cell Biology for Biomedical Scientists; **BM1004** Creativity, Innovation & Teamwork; **BM1007** Introduction to Health Science; **BM1008** Introduction to Human Biology; **BM1009 & BM1010** Biological Chemistry 1 & 2; **MA1001 & MA1002** Calculus for Science Part 1 & 2; **PY1008** Physics for Biomedical, Environmental, Food and Nutritional Sciences (10 credits)

Year 2 Modules

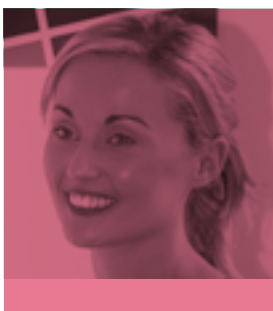
Introductory Molecular Biology; Analytical Chemistry; Analytical Science and Instrumentation; Introduction to Clinical Biochemistry; Haematology and Transfusion Science I; Mammalian Cell and Tissue Structure; Biomolecules; Principles of Metabolic Pathways; Fundamental of Microbiology; Principles of Microbiology; Introductory Physiology I

Year 3 Modules

CORE: Pharmacology; Molecular Biology; Diagnostic Microbiology; Haematology and Transfusion Science; Research Methods for Biomedical Scientists; Medical Microbiology; Immunology: Host Response to Pathogens; Transmission and Epidemiology of Infectious Diseases; Structural Biochemistry; Advanced Metabolism; Cell Signalling; Cellular Pathology

Year 4 Modules

Transfusion Science; Clinical Biochemistry and Endocrinology; Quality Management Systems for Biomedical Scientists; Statistics in Biomedical Science; DNA Diagnostics and Medical Genetics; Haematology; Bioinformatics for Biomedical Science; Virology; Cellular Pathology; Research Project



CAROLINE VAUGHAN GRADUATE

“Although I’m not directly involved with patients, most of their treatment is based on information I supply to the nurses and doctors. The quicker we can diagnose patients, the quicker they will be treated, which is something I find very satisfying. I also find it fascinating to look down the microscope at diseases such as leukaemia, malaria and anaemia.”