

MT871

DURATION 4 Years

MINIMUM CAO

POINTS REQUIRED 2021 590

CAO POINTS RANGE 2021 590-625

APPROXIMATE AVAILABLE PLACES 41

LEAVING CERTIFICATE ENTRY REQUIREMENTS

Minimum grade H5 in two subjects and minimum grade O6/H7 in four other subjects. Subjects must include Irish, English, Mathematics and a laboratory science subject (Biology, Chemistry, Physics, Physics and Chemistry (joint) and any two other subjects recognised for entry purposes. A minimum grade H4 in a laboratory science subject is required.

APPROXIMATE MATURE STUDENT PLACES 1

APPROXIMATE QQI/FE STUDENT PLACES N/A

INTERNATIONAL STUDENTS

 www.ucc.ie/ugi

QQI/FE STUDENTS

 www.ucc.ie/qqi/stem

COURSE PAGE ONLINE

 www.ucc.ie/en/mt871/

CONTACT INFORMATION

Dr Paul Young

 p.young@ucc.ie

 www.ucc.ie/en/biomed

BIOMEDICAL SCIENCE BSc (Honours)

JOINT PROGRAMME WITH CIT/MTU

WHAT IS BIOMEDICAL SCIENCE?

Biomedical Science involves the study of diverse areas of medical science including biochemistry, microbiology, cellular pathology, haematology and transfusion science. Our Biomedical Science course provides you with training in cutting-edge technologies to facilitate the investigation of disease and medical research. As a Biomedical Scientist, you will work in partnership with doctors, and other healthcare professionals, in investigating samples of tissue and body fluids in order to diagnose disease and monitor patient treatments. Biomedical Science encompasses a continually changing and dynamic profession with highly diverse areas of study and work opportunities and, on graduation, you will also be highly sought after by multinational biotechnology and pharmaceutical companies across the EU.

WHY UCC?

UCC offers a unique collaboration with the Cork Institute of Technology (CIT)/Munster Technological University (MTU) which blends the particular strengths of the two institutions. We have developed the Biomedical Science course jointly to improve the course structure and curriculum, your student experience and career opportunities. On completion of this course, and the postgraduate Diploma in Clinical Laboratory Practice, you will attain twofold accreditation allowing you to work as a Biomedical Scientist in hospital laboratories in Ireland, the UK, and some other countries globally.

WHAT WILL HELP YOU?

We recommend Chemistry, Biology, Physics, Mathematics and English as useful. If you have a keen interest in science, laboratory medicine and health, then this course may be for you. It is an advantage to have Chemistry and Physics coming into the course, however, all subjects are taught at an introductory level in the first year.

COURSE STRUCTURE

You will have access to all the UCC and CIT/MTU facilities during this course, attending lectures, tutorials and practical classes in both colleges. You will obtain detailed knowledge in the theory, principles and application of methods in biomedical science and you will also learn to appreciate the importance of the medical scientist in providing a quality pathology service within a healthcare system. Importantly, you will learn how to assess, evaluate, and interpret clinical



laboratory tests and results with a view to aiding in clinical diagnosis. A mixture of laboratory work, lectures, tutorials, and written and practical exams, will ensure that you are ready for the many different roles in medical laboratories.

FIRST YEAR MODULES

All modules are 5 credits unless otherwise stated.

BM1001 & BM1002 Introduction to Biomedical Science I & II, **BM1003** Cell Biology, **BM1004** Creativity, Innovation and Teamwork, **BM1007** Introduction to Health Science, **BM1008** Introduction to Human Biology, **BM1009 & BM1010** Chemistry for Biological Sciences I & II, **MA1001 & MA1002** Calculus for Science I & II, **PY1008** Physics for Biomedical, Environmental, Food and Nutritional Science (10 credits).

GRADUATE PROFILE CAROLINE VAUGHAN

"Although I'm not directly involved with patients, much of their treatment is based on information I supply to the nurses and doctors. The quicker we can diagnose patients, the quicker they are treated, which is very satisfying. It is fascinating to look down the microscope at diseases such as leukaemia, malaria and anaemia."



QUESTION TIME...

ARE THERE ANY SPECIFIC REQUIREMENTS FOR STUDENTS OF THIS PROGRAMME?

Students on this BSc programme must obtain a course of occupational vaccinations for their safety. These will be coordinated and administered through the CIT/MTU Medical Centre but will be at a financial cost to the student. The current vaccination requirements are Hepatitis B (year 1) and both Hepatitis A and REVAXIS in year 2. The approximate combined cost for these vaccinations in the academic year 2019-2020 was €150. The vaccine requirements and costs are reviewed each year and may be subject to change.

WORK PLACEMENT

Upon completion of the BSc programme, you may progress to the postgraduate Diploma in Clinical Laboratory Practice which allows you to practice as a Medical Scientist in Ireland. This optional diploma takes one academic year to complete and incorporates a clinical work placement as part of its programme. Many of our students choose to take up a summer placement in laboratories in Ireland or abroad while completing their undergraduate BSc course. Placements have been carried out at the Cork Cancer Research Centre and across Europe via the acclaimed Amgen Scholars Programme. Check out opportunities at www.ucc.ie/en/biomed/summer.

CAREER OPPORTUNITIES

The BSc (Honours) in Biomedical Science, together with the Diploma in Clinical Laboratory Practice, are fully accredited by both the Academy of Clinical Science and Laboratory Medicine (ACSLM) and the Institute of Biomedical Sciences, allowing you to work as a Biomedical Scientist in hospital laboratories in Ireland, the UK, and elsewhere. Completion of both the BSc degree and the postgraduate diploma also allows you to register with CORU, the regulator of Medical Scientists in Ireland. The course prepares you for a career in laboratory medicine and related areas in the health care industry and the biopharmaceutical industry.

As a Biomedical Science graduate, you can work in a wide variety of areas such as a medical scientist in Irish hospitals (BSc and Diploma required); biopharmaceutical biotechnology industries (BSc only required); public health (BSc only required); sales marketing of medical products (BSc only required). Our graduates have gone on to work in various fields and include analytical chemists, medical scientists, laboratory assistants, laboratory tutors and medical assistants. Companies and hospitals that employ graduates from this course include Alcon Laboratories, Bantry General Hospital, Bon Secours, Cork University Hospital, Galway Clinic, Health Service Executive (HSE), Mater Private Hospital, Mercy University Hospital, St. Vincent's University Hospital, and University Hospital Limerick.

GRADUATE STUDY OPTIONS

As a graduate you can apply for entry to a wide range of postgraduate programmes, including MSc Molecular Cell Biology, MSc Biotechnology, MRes Biochemistry & Cell Biology, PhD Science, Medicine, or complete a PhD and pursue a career in research.

FOLLOW US

 @UCCBIOMEDSOC

 UCCBIOMEDICALSCIENCESOCIETY