

## About the course

This M.Sc. in Clinical Chemistry is a part-time course offered over two years and is delivered by a panel of national and international medical and scientific experts in the discipline. The Clinical Biochemistry Unit at TCD is part of the School of Medicine and is Ireland's only such facility. It is supported by the largest clinical biochemistry service in the country, with state of the art clinical laboratories at Tallaght University Hospital, St. James's Hospital and Naas General Hospital.

Our course offers a combination of taught modules combined with practical workplace assignments that teach vital skills needed in everyday laboratory practice (such as business case development, method evaluation, evaluation of point of care testing devices, a clinical audit, and review of a journal article).

Our students can then subsequently apply the tools and techniques learned in their workplace. Our course also has a very high degree of student-tutor interaction in a friendly learning environment.



## Who should apply?

Candidates who are employed as medical scientists, clinical biochemists or medical doctors and who wish to develop a special interest in Clinical Biochemistry are invited to apply.

Applications will be accepted from those who satisfy ONE of the following requirements:

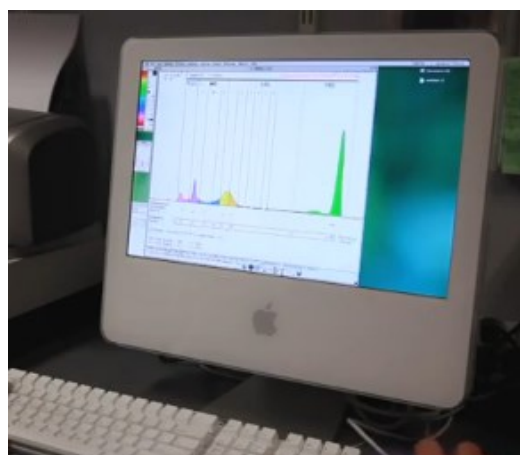
- hold an honours degree (first, upper or lower second class) in any health sciences or biomedical discipline, or a medical, dental or nursing degree, OR
- are Members or are eligible for Membership of the Academy of Clinical Science and Laboratory Medicine, OR
- have two years current or previous work experience in clinical biochemist or medical scientist posts

Course Code	DPTMD-CCHE-1P09
Duration	2 years part-time
Closing Date for Applications	30th June annually
Course Director	Professor Gerard Boran
Email	clinchem@tcd.ie
Tel	+353 1 896 3721
Course Link	<a href="http://www.tcd.ie/medicine/clinical-biochemistry">www.tcd.ie/medicine/clinical-biochemistry</a>

## Course Objectives

All graduates of this course will gain a comprehensive understanding of the principles of Clinical Biochemistry to an advanced level, including clinical and research aspects and with special attention to current developments in the discipline. In particular, the course aims to offer candidates the following:

- a high quality M.Sc. in Clinical Chemistry
- a mix of theoretical knowledge delivered in lecture format combined with continuous development and assessment of clinical reasoning skills and practical knowledge of techniques
- a course structure feasible for full-time laboratory staff
- a comprehensive understanding of the principles of clinical biochemistry
- a sound knowledge of the underlying scientific and technological principles of clinical biochemistry
- a sound knowledge of the clinical principles underlying the application of clinical biochemistry investigations in human disease.
- experience and knowledge in audit, research and development, and effective information management in the discipline





## Course Content

The course runs every Friday during term times over two years (5 terms). Students will be required to complete the following taught modules and a research project as listed below:

Taught Modules	ECTS*
Clinical Chemistry	15
Clinical Chemistry and General Paediatric Biochemistry	15
Endocrinology and Metabolism	10
Endocrinology and Inborn Errors of Metabolism	10
Quality Assurance and Laboratory Management	10

<b>Research Project</b>	<b>30</b>
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To graduate with an M.Sc. in Clinical Chemistry students must complete the equivalent of 90 ECTS: 60 ECTS for the taught components and 30 ECTS for the research project.

More information on the above modules is available on the course web page.

## Other useful links

Further information and link to apply to this course:  
[www.tcd.ie/medicine/clinical-biochemistry/postgraduate/msc/](http://www.tcd.ie/medicine/clinical-biochemistry/postgraduate/msc/)

International students: [www.tcd.ie/study/international/](http://www.tcd.ie/study/international/)

## Research Project

Students will carry out research project in their base laboratory supervised by a member of their local laboratory staff. Students will organise their own placement, however we can assist with finding suitable placements if necessary. Instruction on research methods will be included in the course curriculum.

A project proposal must be submitted during the first term and the completed research dissertation needs to be submitted by 30th June in the final year.



## Course Location

The course will be mainly based at the Trinity Centre for Health Sciences complex at Tallaght University Hospital, Dublin 24.

In addition, some selected lecture blocks take place in St. James's Hospital, Dublin 8 and in Children's Health Ireland (CHI), Temple Street, Dublin 1.



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Please note that changes may apply when the College Calendar is finalised by the University.

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\*ECTS European Credit Transfer and Accumulation System

