Department of Clinical Microbiology

MSc in Healthcare Infection 2020-2021
Table of Contents
General Information .............................................................................................................. 4
Student Supports: Quick Glance ......................................................................................... 4
Co-Curricular Activities ....................................................................................................... 5
Trinity College Dublin Students’ Union (TCDSU) and the Graduate Students’ Union (GSU) 5
Support Provision for Students with Disabilities .............................................................. 6
Emergency procedures ....................................................................................................... 8
Health & Safety Statement ................................................................................................. 8
COVID19 Related Changes ............................................................................................... 9
Data Protection .................................................................................................................. 11
General Programme Information ...................................................................................... 12
Introduction ........................................................................................................................ 12
Admissions .......................................................................................................................... 14
English Language requirements ......................................................................................... 14
Timetabling .......................................................................................................................... 15
Course Location .................................................................................................................. 17
Attendance Requirements ................................................................................................. 17
Teaching and Learning ....................................................................................................... 18
Academic Integrity & Plagiarism ......................................................................................... 18
Explanation of ECTs & Weighting System ......................................................................... 19
Assessment .......................................................................................................................... 20
Research Module 5 ............................................................................................................. 22
Extensions ............................................................................................................................ 22
Supplementary Exams ........................................................................................................ 23
Grading System ................................................................................................................... 23
Programme Structure & Workload .................................................................................... 24
Learning Outcomes ............................................................................................................ 26
Topics & Instructors ........................................................................................................... 28
Virtual Learning Environment (VLE) ................................................................................... 32
Thesis Formatting & Referencing Guidance ....................................................................... 32
Awards ................................................................................................................................. 33
Feedback & Evaluation ....................................................................................................... 33
Notice from Postgraduate Advisory Service ..................................................................... 33
Careers Advisory Service ................................................................................................. 34
Contact Details ................................................................................................................... 37
Course Committee Staff ................................................................................................... 37

Alternative formats of the Handbook can be made on request.
In the event of any conflict or inconsistency between the General Regulations published in the
University Calendar and information contained in programme or local handbooks, the
provisions of the General Regulations in the Calendar will prevail.
https://www.tcd.ie/calendar/graduate-studies-higher-degrees/complete-part-III-hl.pdf
DISCLAIMER:
*This course handbook is a working document and reasonable care has been exercised in its preparation. Please note that changes may also apply when the College Calendar is finalised by the University, or as determined by the Dean of Graduate Studies and Director of Postgraduate Teaching & Learning. No liability is accepted for any financial or other loss or inconvenience incurred due to errors or omissions in the information contained herein, or due to any changes that may apply to the course or document.
General Information

Student Supports: Quick Glance

Trinity welcomes all its students and as a TCD student you have many supports available to you. Please see below for a list of relevant supports. We hope you find this Quick Glance Page useful. If you find a site is missing, please contact us and we will add it to this list.

- **Academic Registry**: [www.tcd.ie/academicregistry/](http://www.tcd.ie/academicregistry/)
- **Academic Policies and Procedures**: [www.tcd.ie/teaching-learning/academic-policies/](http://www.tcd.ie/teaching-learning/academic-policies/)
- **Careers Advisory Service**: [www.tcd.ie/Careers/students/postgraduate/](http://www.tcd.ie/Careers/students/postgraduate/); [www.tcd.ie/careers](http://www.tcd.ie/careers)
- **Chaplaincy**: [www.tcd.ie/Chaplaincy/](http://www.tcd.ie/Chaplaincy/)
- **Complaint Procedures**: [www.tcd.ie/about/policies/160722_Student%20Complaints%20Procedure_PUB.pdf](http://www.tcd.ie/about/policies/160722_Student%20Complaints%20Procedure_PUB.pdf)
- **Disability Service**: [www.tcd.ie/disability/](http://www.tcd.ie/disability/)
- **Graduate Student’s Union (GSU)**: [www.tcdgsu.ie](http://www.tcdgsu.ie)
- **Health and Safety Statement**: [www.tcd.ie/medicine/local/staff/health-safety.php](http://www.tcd.ie/medicine/local/staff/health-safety.php)
- **Health Centre**: [www.tcd.ie/collegehealth/; www.tcd.ie/College_Health](http://www.tcd.ie/collegehealth/; www.tcd.ie/College_Health)
- **IT Services**: [www.tcd.ie/itservices/](http://www.tcd.ie/itservices/)
- **Maths Help Centre**: [www.maths.tcd.ie/Info_for_Schools/Maths_Helproom.php](http://www.maths.tcd.ie/Info_for_Schools/Maths_Helproom.php)
- **Mature Students Office**: [www.tcd.ie/maturestudents/](http://www.tcd.ie/maturestudents/)
- **Orientation Programme**: [www.tcd.ie/students/orientation/](http://www.tcd.ie/students/orientation/)
- **Postgraduate Advisory Service**: [www.tcd.ie/Senior_Tutor/postgraduateadvisory/](http://www.tcd.ie/Senior_Tutor/postgraduateadvisory/)
- **Student Services**: [www.tcd.ie/corporate-services/structure/student-services/](http://www.tcd.ie/corporate-services/structure/student-services/)
- **Student Counselling Services**: [www.tcd.ie/Student_Counselling/](http://www.tcd.ie/Student_Counselling/)
- **Student societies**: [http://trinitysocieties.ie/](http://trinitysocieties.ie/)
- **Student Representation Structures**: [www.tcdgsu.ie/becomearep/](http://www.tcdgsu.ie/becomearep/)
- **Senior Tutor Services**: [www.tcd.ie/seniortutor/](http://www.tcd.ie/seniortutor/)
- **TCD sports**: [www.tcd.ie/Sport/](http://www.tcd.ie/Sport/)
- **TCD Student’s Union (TCDSU)**: [www.tcdsu.org](http://www.tcdsu.org)
Co-Curricular Activities

As a TCD student you can join any of the TCD societies. See the central societies committees website for details on all societies and how to join [http://trinitysocieties.ie/](http://trinitysocieties.ie/)

**TCD sports** | [https://www.tcd.ie/Sport/](https://www.tcd.ie/Sport/)

**DUCAC** | [http://www.tcd.ie/Sport/student-sport/ducac/?nodeId=94&title=Sports_Clubs](http://www.tcd.ie/Sport/student-sport/ducac/?nodeId=94&title=Sports_Clubs)

**Trinity College Dublin Students’ Union (TCDSU) and the Graduate Students’ Union (GSU)**

Trinity College Students’ Union is the union for students, by students. We represent you at college level, we fight for your rights, we look after your needs, and we are here for you to have a shoulder to cry on or as a friend to chat with over a cup of tea!

**TCD Student’s Union (TCDSU)** | [https://www.tcdsu.org](https://www.tcdsu.org)

Trinity’s Graduate Students’ Union (most commonly referred to as the GSU) is the main representative body for all postgraduate students in College.

**Graduate Student’s Union (GSU)** | [https://www.tcdgsu.ie](https://www.tcdgsu.ie)

All courses in TCD are required to elect a student representative and as such you will be asked to elect a representative for the MSc in Healthcare Infection course. This representative will become a member of the GSU council, which meets four times a year. For more information on the GSU council and student representation structures visit [https://www.tcdgsu.ie/becomearep/](https://www.tcdgsu.ie/becomearep/)
Support Provision for Students with Disabilities

Trinity has adopted a Reasonable Accommodation Policy that outlines how supports are implemented in Trinity. Student seeking reasonable accommodation whilst studying in Trinity must applying for reasonable accommodations with the Disability Service in their student portal my.tcd.ie. Based on appropriate evidence of a disability and information obtained from the student on the impact of their disability and their academic course requirements, the Disability Staff member will identify supports designed to meet the student’s disability support needs. Following the Needs Assessment, the student’s Disability Officer prepares an Individual Learning Educational Needs Summary (LENS) detailing the Reasonable Accommodations to be implemented. The information outlined in the LENS is communicated to the relevant School via the student record in SITS.

Examination accommodation and deadlines

Students should make requests as early as possible in the academic year. To ensure the Assessment, Progression and Graduation Team can set your accommodations for examination purposes the following deadlines are applied:

- Semester 1 assessments and Foundation Scholarship assessment: the last Friday in September (to be confirmed)
- Semester 2 assessments: the last Friday in January (to be confirmed)
- Reassessments: the last Friday in May (to be confirmed)

Student responsibilities for departmental assessments/course tests

- Students are required to initiate contact with the School/Department and request reasonable accommodations as per their LENS report, or email received following their needs assessment for particular assessments for School/ Department administered assessment. Students are advised to make contact at least two weeks prior to the assessment date to enable adjustments to be implemented.
Professional Learning Education Needs Summary - PLENS

Students with disabilities on professional courses in receipt of reasonable accommodation provided by College the Disability Service will be issued a PLENS report and are provided with supports such as examination and academic reasonable accommodations. In the background section of the PLENS the following text is included:

Student is encouraged to discuss any disability supports required on professional course and placement with the Academic contact and/or Placement Co-ordinator of their course. Student can be referred back to Disability Service for placement planning supports - Level 2 - Placement Planning, if and when required.

Students are encouraged to speak with the placement co-ordinator if they are unsure of any needs for placement supports. Students can be referred back to Disability Service for placement planning supports, if and when required. More Information on placement supports offered are linked here

Please note: no reasonable accommodation can be provided outside the procedures outlined in the Trinity Reasonable Accommodation Policy.

More detailed text on placement planning and supports can be found at the following link:

https://www.tcd.ie/disability/services/placement-planning.php
Emergency procedures

In the event of an emergency, dial Security Services on extension 1999. Security Services provide a 24-hour service to the college community, 365 days a year. They are the liaison to the Fire, Garda and Ambulance services and all staff and students are advised to always telephone extension 1999 (+353 1 896 1999) in case of an emergency.

Should you require any emergency or rescue services on campus, you must contact Security Services. This includes chemical spills, personal injury or first aid assistance.

It is recommended that all students have at least one emergency contact in their phone under ICE (In Case of Emergency).

Health & Safety Statement

The School of Medicine Health and Safety Statement can be found at https://www.tcd.ie/medicine/local/staff/health-safety.php
COVID19 Related Changes

**Course Delivery:** In light of the current Covid-19 situation please note that details on course delivery, timelines, placements and assessments may be subject to change.

**Important information on COVID-19 restrictions and modes of teaching and learning**

In order to offer taught programmes in line with government health and safety advice, teaching and learning in Semester 1 for your programme will follow a blended model that combines online and in-person elements to be attended on campus. This blended model will include offering online lectures for larger class groupings, as well as in-person classes for smaller groups: the differing modes of teaching and learning for particular modules are determined by your home School. Information on the modes of teaching and learning in Semester 2 will be available closer to the time.

For those students currently on the island of Ireland, we remind you of the Irish Government’s advice that all non-essential overseas travel should be avoided. If you do travel overseas, you are expected to restrict your movements for 14 days immediately from your return, during which time you will not be permitted to come to any Trinity campus.

Trinity will be as flexible as possible in facilitating late arrivals due to travel restrictions, visa delays, and other challenges arising from the COVID-19 pandemic. If you expect to arrive later than 28th September, please alert your course coordinator as early as possible.

**Research Projects:** It should also be noted that changes to research projects may take place before or during projects being undertaken. Under Covid-19 restrictions, research projects may be changed from lab-, clinical-, field-based to desk-based projects and may include projects that include extensive literature reviews, meta-
analysis, clinical case studies (individual and service level case studies), bioinformatics, analysis of existing data, analysis of public datasets or alike.

**Frequent Updates:** Students are responsible for keeping updated with any changes in the situation regarding Covid-19 restrictions. For frequent updates please refer to the college website and the following handles and twitter feeds:

- [https://www.tcd.ie/about/coronavirus/](https://www.tcd.ie/about/coronavirus/)
- [https://twitter.com/tcddublin](https://twitter.com/tcddublin)
- Provost's or College's Twitter account: e.g. @TrinityMed1, @pjprendergast, @tcddublin

**Your Course Director:** Students should contact the course staff if they have any COVID related queries specific to their courses. The Course Director, Course Co-Ordinator, Module Co-Ordinator, Executive Officer and Staff can be contacted.

**Feeling Unwell:** All students to adhere to current national guidelines. If you feel unwell and have any symptoms there is a need to immediately self-isolate. In such a case please also immediately email your Course Director, Course Co-Ordinator and Executive Officer.

**TCD GP Clinics** are open by phone on **01 896 1591** or **01 896 1556** from 9.30am-12pm and 2-4pm. **Do not visit the doctors, call in advance**

All student must download and use the COVID app [https://covidtracker.gov.ie/](https://covidtracker.gov.ie/) and complete their symptoms daily.
Data Protection

For information on student data protection please visit

Introduction

In recent years there have been increasing challenges due to healthcare infections, especially in our hospitals. To some extent this reflects the advances that have been made in medical practice with more invasive procedures but there are also growing populations of susceptible elderly and immunocompromised individuals. Whilst pathogens such as Meticillin Resistant \textit{Staphylococcus aureus} (MRSA) and \textit{Clostridium difficile} justifiably receive prominence in the media, there are other equally important and emerging infectious threats such as SARS-CoV-2, Carbapenem resistant \textit{Enterobacteria}, glycopeptide-resistant Enterococci, multi-drug resistant \textit{Mycobacterium tuberculosis} (MDR-TB) and penicillin resistant Pneumococci. It should also be appreciated that some of the historically important pathogens in the community are undergoing a resurgence, for example invasive Group A Streptococcal Infection (the ‘flesh eating bug’ causing necrotising fasciitis) and influenza, whilst new infectious threats which can cause healthcare associated infections continually emerge e.g. SARS-CoV-2, Ebola, Zika and vCJD.

Current preventive strategies including community-based immunisation programmes and hospital-based infection control policies, are under continual pressure to respond to these challenges. Outside of the many public health concerns associated with these infectious agents, the financial burden arising from the direct and indirect costs of infection constitute a drain on limited healthcare resources. In the modern healthcare setting, the effective management of infection invokes the skills and expertise of a wide range of medically- and scientifically-qualified professionals.

A comprehensive understanding of the principles and practice of infection control and epidemiology is required for the effective management of healthcare infection.

The MSc in Healthcare Infection is a level 9 NFQ (Irish National Framework of Qualifications) postgraduate qualification that is offered by Trinity College Dublin to meet the need for a multi-disciplinary approach to modern healthcare infection
control. The course provides specialist teaching in healthcare infection and its control and is delivered by the Department of Clinical Microbiology, School of Medicine in conjunction with partner organisations including St James’s and Tallaght Hospitals. The course also includes input from overseas experts in the area of healthcare infection.

The MSc in Healthcare Infection is primarily, but not exclusively, aimed at medical microbiologists, infectious diseases physicians, antimicrobial pharmacists, medical scientists, infection control specialists and public health workers and can be taken as either a 1-year full-time degree (Course Code: PTMD-HIMA-1F)/Course ID: DPTMD-HIMA-1F09), or as a 2-year part-time degree (Course Code: PTMD-HIMA-1P/Course ID: DPTMD-HIMA-1P09).
Admissions

Applications will normally be received from those who hold one of the following qualifications:

- A medical degree
- An honours degree in Biomedical Sciences, Nursing, Pharmacy, or Microbiology
- An honours degree in another relevant science subject

Applications may also be received from individuals with a minimum three years of relevant healthcare experience and suitable qualifications. Note: a 2.1 grade or equivalent must be achieved in non-medical undergraduate degree to qualify for admission to this course. Applicants meeting these requirements may be required to attend for interview.

Applications are to be submitted by the end of June each year via the TCD web portal: https://www.tcd.ie/courses/postgraduate/az/course.php?id=DPTMD-HIMA-1F09

English Language requirements

All applicants whose first language is not English and who have not been educated through the medium of English must present a qualification in English language e.g. IELTS, Grade 6.5 overall (no band grade below 6.0) www.ielts.org (Please note that test scores are only valid for two years).

For further details on the English Language Proficiency Tests acceptable to TCD please see https://www.tcd.ie/courses/postgraduate/how-to-apply/requirements/international.php
**Timetabling**

In order to accommodate sufficient time for the research project and dissertation the MSc is offered on an approximate 12-month basis for the 1-year full-time degree, and on an approximate 24-month basis for the 2-year part-time degree, and is scheduled to run from September in the commencement year to August in the completion year.

Where possible, teaching will be *mainly* concentrated into the modular blocks listed below. Due to COVID it will be *highly likely* that teaching may be scheduled outside these times. Were teaching to occur outside blocks, reasonable notice will be given and where possible teaching might also be delivered asynchronously. Additionally, site visits and lectures may occur outside of the teaching blocks to facilitate social distancing and government safety guidelines in relation to COVID-19.

Individual module timetables will be made available via Blackboard 2 to 3 weeks before the beginning of that module.

**Module 1:** Clinical Microbiology & Infectious Diseases (CM7001-A-Y-202021)
- **Week 1:** 5th – 9th Oct 2020
- **Week 2:** 19th – 23rd Oct 2020
- **Exam:** 100% continual assessment

**Module 2:** Antimicrobial Therapy & Resistance (CM7003-A-Y-202021)
- **Week 1:** 16th – 20th Nov 2020
- **Week 2:** 30th Nov – 4th Dec 2020
- **Exam:** 100% continual assessment

**Module 3:** Epidemiology & Infection Control (CM7002-A-Y-202021)
- **Week 1:** 11th – 15th Jan 2021
- **Week 2:** 25th – 29th Jan 2021
- **Exam:** 100% continual assessment

**Module 4:** Multidisciplinary Management of Infection (CM7004-A-Y-202021)
- **Week 1:** 22nd – 26th Feb 2021
Week 2: 8th – 12th Mar 2021
Exam: 100% continual assessment

All below dates are TBC and subject to change

Module 5: Research Project (CM7005-A-Y-202021)
Lab work starts: 5th Apr 2021
Lab work ends: 25th Jun 2021
Thesis submission: 16th Jul 2021

Full-Time Students
Project plan presentation: Jan 2021
Project plan submission: Feb 2021
Research project: Apr – Jun 2021
Extended abstract submission: Apr 2021
Thesis submission deadline: 16th Jun 2021 at 17:00
Thesis presentation: Aug 2021

Part-Time Students
Project plan presentation: Oct 2021
Project plan submission: Nov 2021
Research project: Jan – May 2022
Extended abstract submission: Mar 2022
Thesis submission deadline: Jun/Jul 2022 at 17:00
Thesis presentation: Jul/Aug 2021

Students must also be in attendance on additional scheduled module assessment dates and class times as notified by the module convener or course director/course coordinator.

It is expected that part-time students will successfully complete at least two taught modules in the first year of the Masters prior to progression to the second year of the Masters. The multi-disciplinary Module 4 should be taken after successful completion of Modules 1 to 3.
Course Location

The MSc in Healthcare Infection will be based at the St James’s Hospital campus of Trinity College Dublin ([http://goo.gl/PLZ22H](http://goo.gl/PLZ22H)). Teaching will be held in the Frances Hogan Seminar Room, Sir Patrick Dun Laboratory, Central Pathology Laboratories, St James’s Hospital campus, and other associated healthcare institutions may also be utilised for teaching. The course may include visits to additional hospital, public health or industrial locations for the purpose of on-site demonstrations or presentations relevant to the course teaching. Additional teaching will be hosted online through the use of a Virtual Learning Environment (VLE) in the form of Blackboard Collaborate.

Attendance Requirements

Students must attend all of the scheduled class times and assessments. Any absence for a course time must be notified in advance by email to the relevant module convener and where appropriate, should be accompanied by relevant documentation such as a medical certificate. Repeat absences may be notified to the Course Director/ Course Coordinator. Further details on regulations for absence from lectures and exams [Calendar, Part II, General Regulations and Information](http://www.tcd.ie/calendar/undergraduate-studies/general-regulations-and-information.pdf).
Teaching and Learning

Academic Integrity & Plagiarism

It is important that students are aware of the University’s guidelines on plagiarism. These are available at: http://tcd-ie.libguides.com/plagiarism

As stated in the General Regulations of the University of Dublin Calendar (paragraph 1.32 and following):

“Plagiarism is interpreted by the University as the act of presenting the work of others as one’s own work, without acknowledgement. Plagiarism is considered as academically fraudulent, and an offence against University discipline”

The University considers plagiarism to be a major offence, and subject to the disciplinary procedures of the University.

Note: Plagiarism at postgraduate level is a level 2 offence and is considered an academic misconduct with a penalty of a formal written warning from the Head of School.

Plagiarism can arise from deliberate actions and also through careless thinking and/or methodology. The offence lies not in the attitude or intention of the perpetrator, but in the action and in its consequences.

a. copying another student’s work;

b. enlisting another person or persons to complete an assignment on the student’s behalf;

c. quoting directly, without acknowledgement, from books, articles or other sources, either in printed, recorded or electronic format;

All students will be required to complete the online tutorial ‘Ready, Steady, Write’ (http://tcd-ie.libguides.com/plagiarism/ready-steady-write). Written assessments will also require a cover sheet stating:
“I have read and I understand the plagiarism provisions in the General Regulations of the University Calendar for the current year, found at http://www.tcd.ie/calendar.

I have also completed the Online Tutorial on avoiding plagiarism ‘Ready Steady Write’, located at http://tcd-ie.libguides.com/plagiarism/ready-steady-write.”

The Turnitin software inbuilt in Blackboard will be used by course staff to examine written submissions for academic integrity. Suspected cases of plagiarism will be reviewed by the relevant course instructors and may be referred to the Head of Discipline/School. In cases where plagiarism is deemed to have occurred, the piece of work in question may receive a reduced mark, a mark of zero, or may be required to be resubmitted changing only the plagiarised content (other content should not be altered). Students are strongly advised to read the resources on plagiarism that are available, and to consult their module conveners and project supervisors prior to submitting written assessments or theses for examination. As per the Calendar,

“It is the responsibility of the author of any work to ensure that he/she does not commit plagiarism.”

For further information on plagiarism levels and consequences please visit https://libguides.tcd.ie/plagiarism/levels-and-consequences

Explanation of ECTS & Weighting System

The European Credit Transfer and Accumulation System (ECTS) is an academic credit system based on the estimated student workload required to achieve the objectives of a module or programme of study. It is designed to enable academic recognition for periods of study, to facilitate student mobility and credit accumulation and transfer. The ECTS is the recommended credit system for higher education in Ireland and across the European Higher Education Area. The ECTS weighting for a module is a measure of the student input or workload required for that module, based on factors such as the number of contact hours, the number and length of written or verbally presented
assessment exercises, class preparation and private study time, laboratory classes, examinations, clinical attendance, professional training placements, and so on as appropriate. There is no intrinsic relationship between the credit volume of a module and its level of difficulty.

The European norm for full-time study over one academic year is 60 credits. 1 credit represents 20-25 hours estimated student input, so a 10-credit module will be designed to require 200-250 hours of student input including class contact time, assessments and examinations.

ECTS credits are awarded to a student only upon successful completion of the programme year. Progression from one year to the next is determined by the programme regulations. Students who fail a year of their programme will not obtain credit for that year even if they have passed certain component. Exceptions to this rule are one-year and part-year visiting students, who are awarded credit for individual modules successfully completed.

Assessment

A 50% pass mark is required for each module including the research dissertation and each component of a module should be passed. The resulting mark from each repeated component will be capped at 50%. All modules are designated non-compensatable. In order to be awarded the M.Sc. with Distinction, students must achieve a distinction for the research dissertation (70% or above) and obtain an overall credit-weighted average mark for the course of 70% or above. This must include a distinction mark in at least 2 of the taught modules and no fail grade in any module or component thereof. Assessment will be based on a combination of in-course work and summative assessment for each taught module.

70% in total will be allotted to the assessment of Modules 1 to 4, whilst the remaining 30% of marks will be derived from assessment of the research dissertation, Module 5. Table 1 illustrates the marks allocated to each module.
Table 1. Percentage mark allocation for each module.

<table>
<thead>
<tr>
<th>Module</th>
<th>ECTS</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>15</td>
<td>17.5%</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
<td>17.5%</td>
</tr>
<tr>
<td>3</td>
<td>15</td>
<td>17.5%</td>
</tr>
<tr>
<td>4</td>
<td>15</td>
<td>17.5%</td>
</tr>
<tr>
<td>5</td>
<td>30</td>
<td>30%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>90</td>
<td>100%</td>
</tr>
</tbody>
</table>

NOTE: changes may apply to the assessment guidelines when the 2020/2021 College Calendar is finalized by the University, or as determined by the Healthcare Infection Course Committee or Course Coordinator/Course Director. Should changes apply to the MSc Healthcare Infection assessment, they will be notified as appropriate.

Taught Modules (1-4):

Within each of the taught modules 1 to 4, types of assessments to be used may include:

- Written essay
- Debates
- Journal club/presentations
- Laboratory assignment
- Written exam which may be composed of essay questions, EMQ and SBF tests
- Viva voce
- Blogs

While the assessment percentage for each of module 1 to 4 will be 17.5%, assessment type and weighting may vary between modules depending on the requirements of each module.
The penalty for late submission of an assignment is a deduction of 5% from the total mark for each week, or portion thereof, past the scheduled deadline.

Research Module 5

Module 5 is assessed on a project plan presentation (5%), a written project plan (5%), an extended abstract (5%), a thesis (75%) and a final project presentation (10%). The finalized thesis for examination needs to be submitted in both electronic format as a Microsoft Word file to Blackboard and in hard copy format (3 bound copies) to the Course Coordinator by the scheduled deadline. The thesis will be marked by two examiners; the project supervisor, an internal TCD examiner and may be moderated by the external examiner.

A thesis received after the scheduled deadline will be recorded as a late submission. The penalty for late submission of a thesis is a deduction of 5% from the total mark for each week, or portion thereof, past the scheduled deadline. Thesis extension requests must be submitted, prior to the submission deadline, to the Course Coordinator/Course Director in writing and accompanied by appropriate supporting documentation in the form of a medical certificate or equivalent for consideration. The granting of an individual request for an extension to the thesis submission deadline will be at the discretion of the Course Coordinator/Course Director who may consult other course staff or the Dean of Graduate Studies.

For further details on the Research project please refer to the CM7005 Module 5 Research Project Guidelines.

Extensions

Graduate students who have been unable, through illness or other unavoidable cause, to attend the prescribed instruction satisfactorily, may be granted credit for the term by the Dean of Graduate Studies acting on the advice of the Course Co-
ordinator/Director, but must perform such supplementary exercises as the Dean of Graduate Studies may require. The onus rests with each individual graduate student to inform the Course Co-ordinator/Director of their illness; graduate students must therefore make themselves familiar with the College and course regulations regarding absence from lectures or examinations through illness. Graduate students on taught courses who find themselves incapacitated by illness from attending lectures (or other forms of teaching) should immediately see their medical adviser and request a medical certificate for an appropriate period. Such medical certificates should be given to the Course Co-ordinator/Director, as appropriate. It is the Course Co-ordinator/Director who normally makes representation to the Dean of Graduate Studies on behalf of their postgraduate student.

If you experience COVID-19 symptoms (fever, cough, shortness of breath [https://www2.hse.ie/conditions/coronavirus/symptoms.html]) you must stay home and contact your medical advisor. Self-isolate for 14 days and contact the course coordinator to inform them of your illness.

Supplementary Exams

Where a graduate student has failed on the coursework component, and feels that there are mitigating circumstances, he/she may make a request, in writing, to the Course Co-ordinator/Director for permission to repeat the examination(s) and/or assessment(s). The reasons for the request must be clearly stated and supported where necessary by documentary evidence. If the graduate student is granted a supplemental examination, the results of that examination will be considered to be final, i.e., repetition of the year will not be permitted.

Grading System

The Grading Systems used in the MSc in Healthcare Infection are as follows:

Modules 1-5 Grading System: 70-100% I; 65-69% II-1; 60-64% II-2; 50-59% III; 0-49% F

Overall MSc Grading System: 70-100% Distinction; 50-69% Pass; 0-49% Fail
Programme Structure & Workload

The MSc in Healthcare Infection aims to provide graduates with a comprehensive understanding of the multiple disciplines that must align to deliver effective control of human pathogens in the hospital and community settings. The course will provide foundation and advanced knowledge on the monitoring, prevention, diagnosis, and treatment of healthcare associated infectious diseases.

In terms of structure, the course is delivered in the form of 4 taught modules, which comprise a total of 60 ECTS. There is also a 5th research-based module, which comprises 30 ECTS that will enable students to acquire new laboratory skills and perform research on a topic that is relevant to contemporary healthcare.

Programme Structure

<table>
<thead>
<tr>
<th>Module</th>
<th>Code</th>
<th>Title</th>
<th>ECTS</th>
<th>Convener</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CM7001</td>
<td>Clinical Microbiology &amp; Infectious Diseases</td>
<td>15</td>
<td>Prof Stephen Smith</td>
<td><a href="mailto:steve.smith@tcd.ie">steve.smith@tcd.ie</a></td>
</tr>
<tr>
<td>2</td>
<td>CM7003</td>
<td>Antimicrobial Therapy &amp; Resistance</td>
<td>15</td>
<td>Dr Julie Renwick</td>
<td><a href="mailto:renwickj@tcd.ie">renwickj@tcd.ie</a></td>
</tr>
<tr>
<td>3</td>
<td>CM7002</td>
<td>Epidemiology &amp; Infection Control</td>
<td>15</td>
<td>Prof Johannes Wagener, Ms Lenora Leonard</td>
<td><a href="mailto:wagenerj@tcd.ie">wagenerj@tcd.ie</a>, <a href="mailto:lenora.Leonard@beaconhospital.ie">lenora.Leonard@beaconhospital.ie</a></td>
</tr>
<tr>
<td>4</td>
<td>CM7004</td>
<td>Multidisciplinary Management of Infection</td>
<td>15</td>
<td>Dr Sadhbh O’Rourke</td>
<td><a href="mailto:orourks6@tcd.ie">orourks6@tcd.ie</a></td>
</tr>
<tr>
<td>5</td>
<td>CM7005</td>
<td>Research Project</td>
<td>30</td>
<td>Dr Julie Renwick</td>
<td><a href="mailto:renwickj@tcd.ie">renwickj@tcd.ie</a></td>
</tr>
</tbody>
</table>
For 1-year full-time students, project work will commence following the conclusion of Module 4 in April. For 2-year part-time students scheduling of research project should be discussed with the course coordinator.

As a guide, Full-Time students are expected to devote at least 40 hours per week on their Research Project over a three-month period, and Part-Time students are expected to devote at least 20 hours per week on their Research Project over a six-month period.

Research projects based at Trinity College Dublin, St. James’s Hospital and Tallaght Hospital will be on offer to students. Students may also be given library based projects should the students skill set be more suited to this type of project or in the case of COVID-19 college closure during module 5. In addition, students may also undertake their project work off-campus, for example in an appropriate healthcare facility, provided a suitable project supervisor and research project have been identified and the facility’s research ethics, and health and safety requirements are to be satisfied. In the latter case, a project supervisor at the relevant off-campus site and a University supervisor will be required.
Learning Outcomes

At the end of the course, graduates will be equipped with knowledge to determine the correct approach and appropriate tools for managing healthcare infections. Upon successful completion of this course, graduates will be able to perform a range of tasks that include the following:

**Module 1: Clinical Microbiology & Infectious Diseases (CM7001-A-Y-202021)**

i. Describe and discuss pathogens associated with human infection and disease
ii. Recognize pathogens predominant in the hospital environment
iii. Understand the use of serological and molecular diagnostic techniques
iv. Critically appraise the validity of molecular test results
v. Explain the essential principles of infection control
vi. Become skilled in the design and deployment of nucleic acid amplification tests
vii. Define the role of the HPSC in monitoring and controlling infectious diseases
viii. Become proficient in writing and bibliographic tools


i. Define the major types of antimicrobial drugs
ii. Understand the underlying mechanisms of resistance and how resistance is acquired by important hospital pathogens
iii. Understand how to perform antimicrobial sensitivity testing using various laboratory techniques
iv. Distinguish between antimicrobial resistance in the hospital and community
v. Formulate a prescribing policy for an infectious disease
vi. Analyse the results of therapeutic drug monitoring
vii. Determine if antimicrobial therapy is working on a case-by-case basis
viii. Understand and appraise antimicrobial stewardship principles
Module 3: Epidemiology & Infection Control (CM7002-A-Y-202021)

i. Understand the routes for disease transmission

ii. Describe and discuss the lab detection, epidemiology and typing of major healthcare-associated microorganisms

iii. Define key infection prevention and control principles in a healthcare setting

iv. Create and design outbreak strategies to control the spread of infectious disease

v. Evaluate and appraise methodologies to prevent infection in critical areas

vi. Track waste and contamination sources within hospitals

Module 4: Multidisciplinary Management of Infection (CM7004-A-Y-202021)

i. Investigate the emergence of new infections

ii. Recognise infections that are notifiable

iii. Describe how to control a winter vomiting outbreak in a hospital

iv. Evaluate the use of point-of-care diagnostics

v. Examine the success of infection control strategies based on measurables e.g. patient outcomes, budget costs, safety to staff and other contacts

vi. Prevention of nosocomial fungal infections and antifungal agents

vii. Ethics and research methodologies

viii. Infections associated with immunosuppression

Module 5: Research Project (CM7005-A-Y-202021)

i. Formulate ideas and hypotheses with reference to literature and clinical evidence

ii. Design and undertake new research to answer specific research questions

iii. Record and evaluate the significance and context of research data

iv. Present and discuss findings using various written and oral media

v. Work to appropriate health and safety and research ethics standards in a research environment

vi. Set personal goals and work towards achieving these goals

vii. Demonstrate personal development throughout this process

viii. Demonstrate an adequate level of competence with working practices used in the placement organization
### Module 1: Clinical Microbiology & Infectious Diseases (CM7001-A-Y-202021)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Affiliation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Stephen Smith</td>
<td>Trinity College Dublin</td>
<td>Bacterial Pathogenesis, E. coli and other Enterobacteria</td>
</tr>
<tr>
<td>Prof Thomas Rogers</td>
<td>Trinity College Dublin</td>
<td>Immunity &amp; Genetic Susceptibility, Infections in Immunocompromised Patients, Fungi and Fungal Infections</td>
</tr>
<tr>
<td>Dr Julie Renwick</td>
<td>Trinity College Dublin</td>
<td>Molecular Epidemiology, HCAIs, Microbiome in Health and Disease</td>
</tr>
<tr>
<td>Dr Margaret Fitzgibbon</td>
<td>St James’s Hospital</td>
<td>TB testing</td>
</tr>
<tr>
<td>Prof Sara Doyle</td>
<td>Trinity College Dublin</td>
<td>Immunology</td>
</tr>
<tr>
<td>Ms Antoinette Power</td>
<td>St James’s Hospital</td>
<td>Phenotypic detection</td>
</tr>
<tr>
<td>Dr Brian O’Connell</td>
<td>St James’s Hospital</td>
<td>Principles of laboratory detection</td>
</tr>
<tr>
<td>Ms Yvonne Lynagh</td>
<td>St James’s Hospital</td>
<td>Genotypic detection</td>
</tr>
<tr>
<td>Prof Joseph Keane</td>
<td>St James’s Hospital</td>
<td>Tuberculosis</td>
</tr>
<tr>
<td>Dr Eleanor McNamara</td>
<td>Cherry Orchard</td>
<td>Public Health Microbiology</td>
</tr>
<tr>
<td>Dr Jolita Mereckiene</td>
<td>HPSC</td>
<td>Outbreak investigation</td>
</tr>
<tr>
<td>Dr Ajay Oza</td>
<td>HPSC</td>
<td>Surveillance of antimicrobial consumption</td>
</tr>
<tr>
<td>Dr Suzanne Cotter</td>
<td>HPSC</td>
<td>Surveillance of vaccine preventable diseases</td>
</tr>
<tr>
<td>Mr David Mockler</td>
<td>Trinity College Dublin</td>
<td>Endnote session</td>
</tr>
</tbody>
</table>
## Module 2: Antimicrobial Therapy & Resistance (CM7003-A-Y-202021)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Affiliation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Julie Renwick</td>
<td>Trinity College Dublin</td>
<td>History of antimicrobials, novel antimicrobials</td>
</tr>
<tr>
<td>Prof. Thomas Rogers</td>
<td>Trinity College Dublin</td>
<td>Treatment of Respiratory Tract Infections, Anti-fungal therapy</td>
</tr>
<tr>
<td>Dr Brendan Crowley</td>
<td>St James’s Hospital</td>
<td>Viral testing: Viral load and serology; Antiviral Agents and Resistance</td>
</tr>
<tr>
<td>Dr. Micheál MacAogáin</td>
<td>Trinity College Dublin</td>
<td>Gram Negative Mechanisms of Resistance, MDR pathogens, Next generation sequencing</td>
</tr>
<tr>
<td>Dr Anna-Rose Prior</td>
<td>Tallaght University Hospital</td>
<td>Treatment of CNS Infections</td>
</tr>
<tr>
<td>Mr Donal Smith</td>
<td>Tallaght University Hospital</td>
<td>What the machines do and don’t do, MALDI-TOF</td>
</tr>
<tr>
<td>Dr Brian O’Connell</td>
<td>St James’s Hospital</td>
<td>Hospital and Nursing Home Resistance, Treatment of Bacteremia/Endocarditis</td>
</tr>
<tr>
<td>Dr Alida Talento</td>
<td>St James’s Hospital</td>
<td>Antimicrobial Stewardship</td>
</tr>
<tr>
<td>Dr Jérôme Fennell</td>
<td>Tallaght University Hospital</td>
<td>Carbapenem Resistant Enterobacteriaceae: Local perspectives</td>
</tr>
<tr>
<td>Dr Grainne Brennan</td>
<td>MRSA reference laboratory</td>
<td>Gram Positive Mechanisms of Resistance: MRSA &amp; VRE</td>
</tr>
<tr>
<td>Ms Lisa Rose</td>
<td>St James’s Hospital</td>
<td>Lab detection of antimicrobial resistance</td>
</tr>
<tr>
<td>Dr Deirdre Brady</td>
<td>Matter hospital</td>
<td>Bone and Joint infections</td>
</tr>
<tr>
<td>Dr. Sadhbh O’Rourke</td>
<td>St James’s Hospital/TCD</td>
<td>UTI</td>
</tr>
<tr>
<td>Dr. Margaret Fitzgibbon</td>
<td>St James’s Hospital</td>
<td>Mycobacterial infections: treatment &amp; resistance</td>
</tr>
<tr>
<td>Maire O’Sullivan</td>
<td>St James’s Hospital</td>
<td>Laboratory skills</td>
</tr>
</tbody>
</table>

**Note:** There will be a number of additional speakers scheduled as part of the Focus on Infection symposium on Thursday 3rd December 2020. This may be run as a Webinar.
### Module 3: Epidemiology & Infection Control (CM7002-A-Y-202021)

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Affiliation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Johannes Wagener</td>
<td>Trinity College Dublin/ St James's Hospital</td>
<td>Detection of VTEC outbreaks with next-generation sequencing</td>
</tr>
<tr>
<td>Lenora Leonard</td>
<td>Beacon Hospital</td>
<td>Hand Hygiene, 5 Moments, Auditing &amp; Train the Trainer Healthcare Risk Waste Management</td>
</tr>
<tr>
<td>Lisa Featherstone</td>
<td>St James's Hospital</td>
<td>Basic Principles of Decontamination, Formulation of Infection Control Policy</td>
</tr>
<tr>
<td>Dr Jerome Fennell</td>
<td>Tallaght University Hospital</td>
<td>CPE: Epidemiology &amp; Infection Control Management</td>
</tr>
<tr>
<td>Dr. Breida Boyle</td>
<td>St James's Hospital</td>
<td>Policy for Infection Prevention in a Haematopoietic Transplant Unit, TB Risk Assessment</td>
</tr>
<tr>
<td>Dr. Maeve Doyle</td>
<td>Waterford Regional Hospital</td>
<td>Infection control: Principles &amp; Practice &amp; WHO Initiatives for Patient Safety, Validation &amp; Commissioning of hosp.</td>
</tr>
<tr>
<td>Judy Gannon</td>
<td>HIQA</td>
<td>HIQA &amp; National Standards for Safer Better Healthcare</td>
</tr>
<tr>
<td>Mary Kelleher</td>
<td>St James's Hospital</td>
<td>Surveillance of HCAIs in a tertiary hospital ventil. Systems</td>
</tr>
<tr>
<td>Dr. Susan Clarke</td>
<td>St James's Hospital</td>
<td>Bloodborne Viruses Current Guidance</td>
</tr>
<tr>
<td>Andrew Smith</td>
<td>St James's Hospital</td>
<td>Management of a Hospital HSSU</td>
</tr>
<tr>
<td>Prof. T. Rogers</td>
<td>Trinity College Dublin</td>
<td>Nosocomial Aspergillus</td>
</tr>
<tr>
<td>Dr. Kirsten Schaffer</td>
<td>St Vincent’s Hospital</td>
<td>Control of Multidrug Resistant Microorganisms in the Healthcare Environment</td>
</tr>
<tr>
<td>Dr. Susan FitzGerald</td>
<td>St Vincent’s Hospital</td>
<td>Management of a Hospital Outbreak: Simulation Exercise, Understanding Routes of Transmission,</td>
</tr>
<tr>
<td>Dr. Brian O’Connell</td>
<td>St James’s Hospital</td>
<td>Clinical Aspects of MRSA</td>
</tr>
<tr>
<td>Brenda McManus</td>
<td>Dublin Dental Univ Hospital, TCD</td>
<td>Diagnosis, management and epidemiology of Candidiasis</td>
</tr>
<tr>
<td>Grainne Brennan</td>
<td>MRSA Reference Laboratory</td>
<td>Risk Management and IPC Health and Safety</td>
</tr>
<tr>
<td>Instructor</td>
<td>Affiliation</td>
<td>Topic</td>
</tr>
<tr>
<td>-------------------------</td>
<td>------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr Sadhbh O’Rourke</td>
<td>St James’s Hospital</td>
<td>Transmissible spongiform encephalopathy (TSEs) Decontamination issues</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Clostridium difficile</em></td>
</tr>
<tr>
<td>Prof. Thomas Rogers</td>
<td>Trinity College Dublin</td>
<td>Guidelines on the prevention of nosocomial aspergillosis</td>
</tr>
<tr>
<td>Mr. Peter Hoffman</td>
<td>Public Health England, UK</td>
<td>Prevention of airborne transmission; Pseudomonas infections</td>
</tr>
<tr>
<td>Dr. Ronnie Russell</td>
<td>Trinity College Dublin</td>
<td>Environmental disinfection, sterilisation</td>
</tr>
<tr>
<td>Dr. Noirin Noonan</td>
<td>St James’s Hospital</td>
<td>Protecting healthcare staff</td>
</tr>
<tr>
<td>Dr Elaine Kenny</td>
<td>Trinity College Dublin</td>
<td>Next Generation sequencing</td>
</tr>
<tr>
<td>Dr Geraldine Moloney</td>
<td>Trinity College Dublin</td>
<td><em>S. aureus</em> infections other than MRSA</td>
</tr>
<tr>
<td>Dr. Nina Gosall</td>
<td>The Critical Appraisal Co.</td>
<td>Critical appraisal workshop</td>
</tr>
<tr>
<td>Prof. Malcolm Richardson</td>
<td>Nat. Aspergillus Cent. Manchester</td>
<td>Healthcare-associated fungal infections</td>
</tr>
<tr>
<td>Mr. Brian Fitzgerald</td>
<td>Beacon Hospital</td>
<td>The role of Senior Hospital Management</td>
</tr>
<tr>
<td>Dr. Kevin Kelleher</td>
<td>HSE</td>
<td>Accreditation and licensing</td>
</tr>
<tr>
<td>Dr. Tim Boswell</td>
<td>Nottingham Uni Hospital</td>
<td><em>C. difficile</em>: A UK and Nottingham perspective</td>
</tr>
<tr>
<td>Ms. Yvonne Joyce</td>
<td>Hayes Solicitors</td>
<td>Medical negligence claims: a legal perspective</td>
</tr>
<tr>
<td>Mr. N Keeling</td>
<td>Legal &amp; Risk Dept, SJH</td>
<td>Dealing with medicolegal issues in the hospital</td>
</tr>
<tr>
<td>Dr. Barry Lyons</td>
<td>Trinity College Dublin</td>
<td>Medical Ethics</td>
</tr>
<tr>
<td>Dr. E O’Connor</td>
<td>St James’s Hospital</td>
<td>Infections complicating high dependency patient care</td>
</tr>
<tr>
<td>Dr. Eleanor Mc Namara</td>
<td>St James’s Hospital &amp; PHL Cherry Orchard</td>
<td>Infections complicating conflict and bioterrorism</td>
</tr>
<tr>
<td>Mr. O Shelley</td>
<td>St James’s Hospital</td>
<td>Infection of burns</td>
</tr>
<tr>
<td>Dr Julie Renwick</td>
<td>Trinity College Dublin</td>
<td>Nucleic acid based studies of respiratory microbiome in cystic fibrosis patients</td>
</tr>
</tbody>
</table>
Virtual Learning Environment (VLE)

Blackboard Learn (mymodule.tcd.ie) is Trinity College's Virtual Learning Environment (VLE). Most of your lecture notes, online assignments and other activities will available through Blackboard. Also individual module schedules and announcements will be made via Blackboard.

All registered staff and students automatically have accounts in Blackboard. If you are not enrolled in your modules check with your school office to ensure you are timetabled for the modules. All data in Blackboard is based on the College timetabling systems and information taken from your student record on my.tcd.ie. Blackboard requires an active TCD computer account for access. For more information on access and enrolment issues visit the IT Services VLE page.

https://www.tcd.ie/CAPSL/resources/blackboard/

Thesis Formatting & Referencing Guidance

Students are advised to consult and follow the university’s thesis production guidelines. Information and resources on thesis planning and production are available at http://www.tcd.ie/itservices/training/thesis.php. Additional formatting guidelines and instructions for submitting your thesis can be found in the CM7005 Module 5 Research Project Guidelines.

The university’s IT Services offer a course entitled “Planning Thesis Production” that will be undertaken by students as part of Module 1. The American Society for Microbiology (ASM) referencing style is recommended for the thesis (consult the Journal of Clinical Microbiology) https://jcm.asm.org/content/49/1/1, and other submitted written course work. Additional information on appropriate Microorganism and Genetic Nomenclature is available from the Journal of Clinical Microbiology at http://jcm.asm.org/site/misc/ifora.xhtml.

The project thesis should be 10,000 - 15,000 words. Students should state the word count on the thesis submitted for examination. Students should ensure that their thesis has been appropriately proofread and that their project supervisor has had an
opportunity to provide feedback on a draft of the thesis prior to submission for examination. The research dissertation will be assessed by the project supervisor, an internal examiner and, where required, an external examiner. Students will also be requested to give an oral presentation on their research project work. A declaration of plagiarism must also be submitted with the thesis.

Awards

The MSc in Healthcare Infection is a level 9 NFQ (Irish National Framework of Qualifications) postgraduate qualification. It is possible to exit the MSc course with a postgraduate Diploma (PGrad.Dip) in certain circumstances deemed suitable by the course committee.

Feedback & Evaluation

The course will be evaluated on two occasions using on-line questionnaires; once at the end of the taught components and at the time of submission of the dissertation. Students surveys and focus groups are conducted as part of the programme review process.

Notice from Postgraduate Advisory Service

The Postgraduate Advisory Service is a unique and confidential service available to all registered postgraduate students in Trinity College. It offers a comprehensive range of academic, pastoral and professional supports dedicated to enhancing your student experience.

Who?

The Postgraduate Advisory Service is led by the Postgraduate Support Officer who provides frontline support for all Postgraduate students in Trinity. The Postgraduate Support Officer will act as your first point of contact and a source of support and
guidance regardless of what stage of your course you’re at. In addition each Faculty has three members of Academic staff appointed as Postgraduate Advisors who you can be referred to by the Postgraduate Support Officer for extra assistance if needed.

Contact details of the Postgraduate Support Officer and the Advisory Panel are available on our website: https://www.tcd.ie/Senior_Tutor/postgraduate/

Where?

The PAS is located on the second floor of House 27. We’re open from 8.30 – 4.30, Monday to Friday. Appointments are available from 9am to 4pm.

Phone: 01 8961417
E-mail: pgsupp@tcd.ie

What?

The PAS exists to ensure that all Postgraduate students have a contact point who they can turn to for support and information in college services and academic issues arising. Representation assistance to Postgraduate students is offered in the area of discipline and/ or academic appeals arising out of examinations or thesis submissions, supervisory issues, general information on Postgraduate student life and many others. If in doubt, get in touch! All queries will be treated with confidentiality. For more information on what we offer see our website.

If you have any queries regarding your experiences as a Postgraduate Student in Trinity don’t hesitate to get in touch with us.

Careers Advisory Service

Postgraduate study opens the doors to many opportunities, but the market is competitive and you will need to differentiate yourself clearly from other candidates.
**Resources:**

The Careers Advisory Service (CAS) provides a wide range of resources and services to help you make and implement informed choices about your future career direction.

The Careers Information Centre at 7-9 South Leinster Street contains a range of free, career-related booklets and employer materials for you to take away. Online, the resources section of the website (www.tcd.ie/Careers/resources) provides useful information on a range of topics from career choice and planning, to working abroad, taking a year out and everything in between.

**Services:**

Individual appointments to meet a Careers Consultant are also available. They work with you to identify how best to approach the next step in your career. They can also review your CV/LinkedIn profile and provide coaching to ensure maximum impact at interview.

Job opportunities from employers currently recruiting Trinity graduates as well as postgraduate courses and funding are available online.

CAS also offers a wide range of seminars; workshops and employer presentations, including postgrad specific events, throughout the year that will help you explore where your postgraduate study can take you.
MyCareer

An online service that you can use to:

- Apply for opportunities which match your preferences - vacancies including research options
- Search opportunities- postgraduate courses and funding
- View and book onto employer and CAS events
- Submit your career queries to the CAS team
- Book an appointment with your Careers Consultant

Simply login to MyCareer using your Trinity username and password and personalise your profile.

Careers Advisory Service

Trinity College Dublin, 7-9 South Leinster Street, Dublin 2
01-896-1705/1721 | Submit a career query through MyCareer

Opening Hours

During term: 9.30am - 5.00pm, Monday - Friday
Out of Term: 9.30am - 12.30pm & 2.15 - 5.00pm, Monday - Friday
# Contact Details

## Course Committee Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prof Rom Rogers</strong>, Head of Clinical Microbiology, TCD</td>
<td>Consultant in Microbiology</td>
<td>+353-1-896</td>
<td><a href="mailto:rogerstr@tcd.ie">rogerstr@tcd.ie</a></td>
</tr>
<tr>
<td><strong>Prof Stephen Smith</strong>, Associate Professor in Clinical Microbiology, TCD</td>
<td>Course director Convener of Module 1</td>
<td>+353-1-8968590</td>
<td><a href="mailto:steve.smith@tcd.ie">steve.smith@tcd.ie</a></td>
</tr>
<tr>
<td><strong>Dr Julie Renwick</strong>, Assistant Professor in Clinical Microbiology, TCD</td>
<td>Course Coordinator Convener of Module 2</td>
<td>+353-1-8964551/3791</td>
<td><a href="mailto:renwickj@tcd.ie">renwickj@tcd.ie</a></td>
</tr>
<tr>
<td><strong>Prof Johannes Wagener</strong>, Associate Professor/Consultant Microbiologist</td>
<td>Co-convener of Module 3</td>
<td>+353-1-8964551</td>
<td><a href="mailto:wagenerj@tcd.ie">wagenerj@tcd.ie</a></td>
</tr>
<tr>
<td><strong>Dr Sadhbh O’Rourke</strong>, Clinical Microbiologist and lecturer, TCD/SJH</td>
<td>Convener of Module 4</td>
<td></td>
<td><a href="mailto:orourks6@tcd.ie">orourks6@tcd.ie</a></td>
</tr>
<tr>
<td><strong>Lenora Leonard</strong>, Lecturer in Clinical Microbiology, TCD &amp; Infection Prevention and control Manager, Beacon Hospital</td>
<td>Co-convener of Module 3</td>
<td>+353-1-293 8640</td>
<td><a href="mailto:Lenora.Leadon@beaconhospital.ie">Lenora.Leadon@beaconhospital.ie</a></td>
</tr>
<tr>
<td><strong>Dr Jérôme Fennell</strong>, Consultant Microbiologist, Tallaght Hospital</td>
<td>Liaison person with Clinical Microbiology physicians</td>
<td></td>
<td><a href="mailto:jerome.fennell@amnch.ie">jerome.fennell@amnch.ie</a></td>
</tr>
<tr>
<td><strong>Dr Ceppie Merry</strong>, SJH</td>
<td>Consultant in Infectious Diseases</td>
<td></td>
<td><a href="mailto:cmmerrie@stjames.ie">cmmerrie@stjames.ie</a></td>
</tr>
<tr>
<td><strong>Dr Lisa Domegan</strong>, HSE</td>
<td>Liaison person with the Health Service Executive</td>
<td>+00-353-1-8765371</td>
<td><a href="mailto:lisa.domegan@hse.ie">lisa.domegan@hse.ie</a></td>
</tr>
<tr>
<td><strong>Antoinette Power</strong>, SJH</td>
<td>Chief Medical Scientist</td>
<td>+353-1-1416 2986</td>
<td><a href="mailto:ampower@stjames.ie">ampower@stjames.ie</a></td>
</tr>
</tbody>
</table>

## Course Administrator

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Muriel Gowing</strong>, School of Medicine, TCD</td>
<td>Executive Officer</td>
<td>+353-1-8962138</td>
<td><a href="mailto:mgowing@tcd.ie">mgowing@tcd.ie</a></td>
</tr>
</tbody>
</table>