

THE UNIVERSITY OF DUBLIN

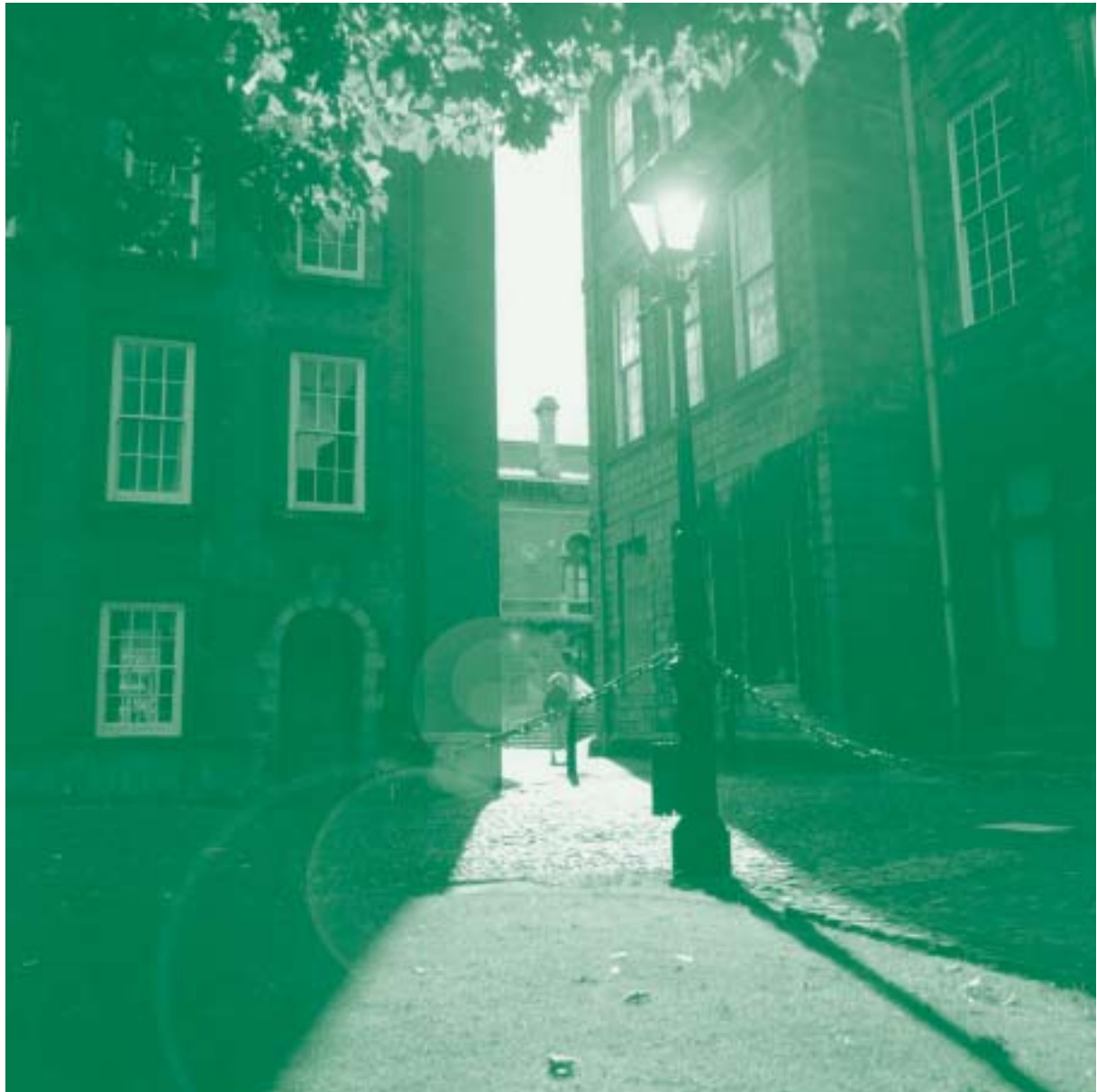


TRINITY COLLEGE



POSTGRADUATE COURSES 2005

[www.tcd.ie](http://www.tcd.ie)



# The College's Mission

Trinity College Dublin exists to provide an internationally recognised centre of excellence in higher education wherein a diverse body of students may learn and train in their chosen disciplines and scholars may carry out research in order to advance knowledge in their various subjects.

To this end the College seeks to enable the widest possible range of students to pursue theoretical and applied subjects; foster independence of thought; sustain basic and applied research; be available as a resource of expertise and knowledge to the community; play a key role in providing appropriately skilled manpower; meet the social, economic and technological needs of society; foster international cooperation; and exchange in higher education and research.



# How this Publication is organised

The first section of this book contains general information on various aspects of Ireland, Dublin and the University.

The second section is divided up by six areas of study: Arts (Humanities); Arts (Letters); Business, Economic and Social Studies; Engineering and Systems Sciences; Health Sciences and Science.

Following the general introduction to each area of study are the entries for the particular disciplines arranged alphabetically. Following these entries are listings of the taught courses. The

listings cover Masters courses first and Postgraduate Diploma courses second – both lists are in alphabetical order. Based on historical or other reasons, applicants may find that courses expected to be listed under a certain study area are actually listed under an alternative study area. For example, the taught M.Sc. in High Performance Computing is listed under Mathematics in the area of Science, and not within Computer Science, in the area of Engineering and Systems Sciences. For this reason the publication is cross-referenced, so that

certain courses appear twice and immediately following this introduction is a comprehensive index.

The second last section of the publication is a copy of the main **College charges** levied on postgraduate students.

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# Graduate Studies Office

The office has overall responsibility for the registration, monitoring of academic progress and welfare of postgraduate students throughout the University. It is situated in the Arts Building on the main campus, and is open 10am to 12pm and 2pm to 4pm, Monday to Friday. Further information can be obtained from our website [www.tcd.ie/Graduate\\_Studies/index.html](http://www.tcd.ie/Graduate_Studies/index.html).

## DEAN OF GRADUATE STUDIES:

Patrick J. Prendergast, B.A., B.A.I., Ph.D.

## OFFICE ADMINISTRATOR:

Ewa Sadowska M.Phil. (Warsaw), M.Litt., Dip.Bu.St. (N.C.E.A.)

## ENQUIRIES AND CORRESPONDENCE

General public enquiries:  
Email: [gradinfo@tcd.ie](mailto:gradinfo@tcd.ie)  
Telephone: +353-1-608 1166

Specific enquiries during admission to taught postgraduate courses:  
Email: [taught.admissions@tcd.ie](mailto:taught.admissions@tcd.ie)  
Telephone: +353-1-608 2182

Specific enquiries during admission to postgraduate research programmes:  
Email: [research.admissions@tcd.ie](mailto:research.admissions@tcd.ie)  
Telephone: +353-1-608 3354

Graduate Studies Office  
Arts Building  
Trinity College  
Dublin 2  
Ireland  
Fax: +353-1-671 2821

An application form, obligatory for admission to all research and taught programmes can be obtained from the Graduate Studies Office by post, or alternatively downloaded on: [www.tcdlocalportal.tcd.ie/pls/application\\_forms/sis\\_pub.SIS\\_APPLICATION\\_FORM.main](http://www.tcdlocalportal.tcd.ie/pls/application_forms/sis_pub.SIS_APPLICATION_FORM.main)

Additional application forms are required for these courses:

- Doctor in Medicine (M.D.)
- Masters in Social Work (M.S.W.)
- M.Sc. in Science Education
- Postgraduate Diploma in Gynaecology and Obstetrics
- All nursing courses

Check with Course Coordinators for further details. Incomplete applications will not be processed. Please note that unsuccessful applications will not be returned or retained. It is Graduate Studies Office policy to destroy

unsuccessful applications after 1 June of the academic year into which entry was being sought/applied for.

All information in this publication is accurate at the time of printing. Changes of courses, options, fees and dates may occur between printing and October 2005. In addition, factors such as the unexpected unavailability of staff, or a level of application below that which is minimally required to allow a course to run may make it practically impossible, or prohibitively expensive for the University to offer an option listed in this publication. Any offer of a place made to you is subject to your consenting to the incorporation of this notice as a term of any such offer.

All applicants should make all reasonable effort prior to registration to ensure that the course/programme they are registering for meets their expectations, by contacting the relevant course coordinator or prospective supervisor/research director.

**The information set on these pages is intended as a guide only and shall not be deemed to form a contract between the College and an applicant or any third party.**





# Introduction



# The Country, the City and the University

## THE COUNTRY

The Republic of Ireland has a population of 4.05 million, with Dublin, its capital city, having a population of nearly 1.3 million. With a land area of around 70,000 square kilometres, it is one of the least densely populated countries in the European Union. The country enjoys a relatively mild climate with average monthly temperatures ranging from 7°C in January to 19°C in July.

The Irish economy is an open, mostly export-based economy that has experienced unprecedented levels of growth since the mid-1990s. Living standards are now above the European Union average.

## THE CITY

Dublin, the capital of Ireland, is situated in the east of the country and enjoys one of the best settings of any European city. Stretching around the wide expanse of Dublin Bay from the imposing mass of Howth Head in the north to the granite outcrops of the Wicklow massif in the south, few parts of the city are far from the sights and smells of the sea, while many city centre streets end in a vista of mountains.

Cosmopolitan in its origins, Dublin – *Báile Átha Cliath* in Irish – arose originally from a Viking settlement on the south bank of the river Liffey. The principal city of Ireland for most of its thousand-year history, it experienced a period of rapid expansion in the eighteenth century, when it attained the status of one of Europe's great cities, with magnificent squares, stately public buildings and the largest public park in Europe. Much of the elegance of that period and sense of harmony is conserved in and around Trinity College.

Dublin has a full and varied cultural and intellectual life. The recently expanded and upgraded National Museum displays unique Celtic Bronze Age and Early Christian artefacts, which reflect both the country's wealth in gold at this period, and the artistic sophistication of the early Irish craftsmen. The National Gallery of Ireland, whose new extension 'The Millennium Wing', opened in 2002, is considered one of the best small galleries in Europe; and the National Library has exquisite collections of manuscript, photographic and other printed material. Both museum and gallery, flanking the seat of the Irish parliament, are within a few hundred yards of Trinity College.

In the work of its writers, playwrights, actors and musicians, Dublin is the equal in quality and variety to any capital city in Europe. It is renowned particularly for its theatrical life, whether in established theatres such as the Abbey and the Gate, or in small experimental theatre, including Trinity's Beckett Theatre with its own 'Players'.

In the literary field, the contribution of native sons has been outstanding, with Jonathan Swift, Oliver Goldsmith, Oscar Wilde, Bernard Shaw, William B. Yeats, James Joyce, Samuel Beckett and Seamus Heaney the most prominent names.

A particular feature of Dublin life is the tradition of live music in every conceivable venue, from street busking to the National Concert Hall – not forgetting the singing pubs, where traditional music still flourishes.

With one of the youngest populations of Europe's major cities, Dublin offers an unusually congenial atmosphere for students. While the economic upsurge of recent years has brought a proliferation of fashionable boutiques and expensive restaurants, there are also second-hand bookshops, street markets, fast food outlets and ethnic



eateries of all kinds, many located in the bohemian Temple Bar area not far from College.

As the major commercial centre of the island, Dublin is the hub of communications for the country as a whole. Train or bus can easily reach most parts of Ireland, including the renowned scenic areas of Cork, Kerry, Clare and Galway. For vacation travel, few European capitals are more than two hours away by air by direct flights.

## THE UNIVERSITY

Trinity College, the single constituent college of the University of Dublin, was founded by Queen Elizabeth I in 1592, and so celebrated its Quatercentenary in 1992. It is the oldest university in Ireland and one of the oldest universities in Europe. For most purposes, from a student perspective, the College is synonymous with the University.

Based on the general pattern of the ancient colleges at Oxford and Cambridge, Trinity is larger, with a main campus extending over 40 acres in a unique site in the heart of the city.

The west end of the campus includes five quadrangles of squares with many buildings from the 18th century, notably the Old Library – home to the priceless 9th century manuscript, The Book of Kells. The most recent of these squares was completed in 1978 and is situated opposite the award-winning Arts Building.

Further east, the recently built Hamilton and O'Reilly buildings house many of Trinity's science and technology areas and complement the recently completed Dental Hospital. Between the two built-up ends of College, the College Park with its sports fields remains one of the largest green spaces in the city.

One of Ireland's major tourist attractions, the main College campus is also an intimate part of the city in whose heart it stands.

In a number of ways, Trinity is central to Irish life. Many of the famous people of Irish letters and history were educated at Trinity including writers such as Jonathan Swift, Oliver Goldsmith, Oscar Wilde and Samuel Beckett. Ireland's first President, Douglas Hyde, previous President, Mary Robinson and the current President, Mary MacAleese

were all either educated in Trinity College or on the staff of the College or both. No stranger to controversy, Trinity has often provided an independent and liberal voice in the affairs of the state.

Most academic activity is concentrated in the main College campus. However, recent developments have allowed expansion of the Health Sciences off-campus, in two major locations – a purpose built facility in the largest teaching hospital in Ireland, at St. James's Hospital in Dublin and another in a newly completed regional general hospital in the Dublin suburbs at Tallaght. In addition, sporting facilities and modern accommodation are provided both on and off-campus.

The vigour of any university must be judged by its commitment to research. In the early 21st century, this often takes the form of partnership with major international companies or of inter-institutional cooperation within the framework of programmes of the European Union, and in both Trinity is in a leading position in Ireland.

Trinity prides itself on its tradition of personal contact between staff and students, encouraged by its collegiate atmosphere. College provides a range of facilities – dining hall, cafeterias and bars – and a varied social life sustained by a host of student societies and sports clubs.



# The University and its Central Facilities

The University is governed by an academic Board, chaired by the Provost elected for a period of 10 years. The University Council, also chaired by the Provost, governs academic matters. The current Provost, Professor John Hegarty, was elected in 2001.

## THE UNIVERSITY LIBRARY

The University Library is one of the largest in Europe, with a bookstock of over 4.25 million volumes, over 30,000 current serials and extensive collections of manuscripts, maps and music. Along with only five other libraries in the world (the British Library in London, the National Libraries of Scotland and Wales and the University Libraries at Oxford and Cambridge), it enjoys the privilege of receiving all Irish and UK copyright material – a right it has had since 1801.

Completed in 1732, the Old Library, contains the Departments of Early Printed Books, Manuscripts as well as areas open to the public: the Long Room, the Treasury, and the Colonnades Exhibition Area.

The Berkeley, Lecky and Ussher Library complex, completed in 2002, contains the main administrative offices, workrooms and print collection for

Business Economics and Social Studies, Arts and Nursing studies. It also houses the Music, Law and Official Publications collections. The Ussher Library is fully equipped with electronic data connections at all study places. Study carrels for research students are available in the complex and can be reserved. The 1937 Postgraduate Reading Room was opened in November 2003, for use by research students.

The library is of crucial importance to research, both in the richness of its print and manuscript resources and increasingly in the delivery of electronic information.

The Department of Early Printed Books has responsibility for over 300,000 volumes printed before 1901 and for certain modern collections – notably Anglo-Irish literature (including authors such as Jonathan Swift, William Congreve, George Farquar and Oliver Goldsmith) and modern private press collections. Of particular interest is the Fagel collection, which contains works printed between 1650 and 1750. The collection includes numerous continental printings and illustrated books, many in the field of science;

11,000 French revolutionary pamphlets; and 1,000 17th century printed editions of French plays, the latter recently acquired.

The Department of Manuscripts contains the largest collection of manuscript material in Ireland. It has extensive holdings in classical and medieval Latin and medieval Greek. Other medieval material includes significant holdings in languages ranging from Icelandic to Persian, and including Irish, English and French. The Irish holdings include one of the finest collections of early Irish manuscripts in the world, including the Book of Leinster, the earliest manuscript of Irish law, dating from the 12th century. In addition there are extensive collections of modern, mainly Irish, political and literary papers which draw a large number of visitors to the library. The Book of Kells, perhaps the supreme example of early medieval art, is housed in the Old Library. Written around the year 800 AD, it is one of the most beautifully illuminated manuscripts in the world. The manuscript was given to Trinity College in the 17th century and since 1953 is currently one of the most-visited tourist attractions in Ireland.

The Map Library collection contains approximately 600,000 maps, mainly relating to Ireland and Britain; including a comprehensive collection of Ordnance Survey material, hydrographic charts from all over the world and maps of certain regions of Africa.

Science and medical collections are housed in separate buildings; the latter off-Campus in the College's associated teaching hospital. The Science, Health Sciences and Engineering collections include runs of core periodicals and books published in the UK and Ireland. The library subscribes to 3,500 electronic journals in all disciplines and to many bibliographic databases providing access to published research results. Lesser-used print material is housed off-site in a purpose-built book storage repository.

In addition to the main university library a number of areas, notably in Science and Engineering, maintain their own specialist and often extensive library collections and the campus is in close proximity to a number of other large libraries – notably the National Library of Ireland and the Royal Irish Academy Library.

Find out more about the Library at [www.tcd.ie/Library](http://www.tcd.ie/Library)

## COMPUTING FACILITIES

Information Systems Services is responsible for the provision and support of computer systems, networking, audio-visual and media services in College.

On registration all postgraduate students are issued with a user account providing access to a range of computer facilities and services. There are numerous computer rooms and dedicated email/web stations for student use at different sites around the campus and in some off-campus locations. Each student is allocated a TCD email account for official correspondence and some storage space on the College server. All computer rooms have laser-printing facilities and some have colour printing and scanning facilities. Computing facilities and support are also available at St. James's and Tallaght hospitals, which are the University's two main teaching hospitals.

IS Services offer a range of IT training courses for College staff and students throughout the year. These cover all the main desktop applications such as word processing, spreadsheet, database and presentations. More specialised courses on topics such as web publishing and statistical analysis are also available on a regular basis.

The central point of contact for all IS Services is the Helpdesk, which is located on the ground floor of Áras an Phiarsaigh. An extensive range of online facilities on all aspects of the services provided can be viewed on the local website at <http://isservices.tcd.ie>.

## COLLEGE MUSEUMS

In the 18th and 19th centuries the College possessed a very extensive museum containing some valuable material. When the museum was dispersed in 1857 the ethnographic material was lodged with the nearby National Museum of Ireland, but the University retained certain specialist collections.

### The College Herbarium

The College herbarium was founded in the early 19th century but also contains some material from earlier centuries as well. The herbarium is of international importance as it contains numerous type specimens. It is also the second largest herbarium in Ireland and by far the most taxonomically important. Apart from its Irish and European collections the herbarium is particularly strong in material from South Africa, America, Australia and Thailand. Used for both teaching and scholarship it attracts a large number of overseas researchers, accesses approximately 1,800 new specimens every year and has a research programme focused on South-East Asia and Ireland.

### The Zoology Museum

The first base for zoological studies at Trinity College was provided by the University Museum which was rehoused at the east end of College, where it remains today, albeit on a relatively smaller scale within the area of Zoology.

The collection contains approximately 30,000 specimens representing all of the animal phyla. Some of the more important exhibits include a specimen of the now extinct great auk, a collection of Blaschka glass models and early 19th century entomological collections. Today the main function of the museum is to provide undergraduate training in animal systematics, biodiversity and taxonomy. Associated with the zoological collection is a small library containing specialised zoological literature.

### The Geology Museum

The museum is housed in one of the most spectacular of Trinity's historic campus buildings. Two mounted Giant Irish Deer skeletons retrieved from Lough Gur flank the entrance. The main collections are very diverse, with displays ranging from fossils, through maps to minerals, gemstones, zeolites, industrial minerals and building materials and meteorites. In total the collections contain approximately 50,000 paleontological specimens of

which 46,000 are invertebrates, 1,000 vertebrates and 3,000 plants, 7,000 mineralogical specimens and 15,000 petrological specimens. Amongst these is a substantial number of type and figured specimens which add to the research and teaching importance of the collections.

### The Weingreen Museum

The Weingreen Museum of Biblical Antiquities is named in honour of Professor Jacob Weingreen, Erasmus Smith Professor of Hebrew at Trinity College Dublin between 1939 and 1979.

The Weingreen Museum encompasses numerous exhibits from the entire Mediterranean world from North Africa to Mesopotamia and from Jericho, the

oldest city (9th millennium) to have been excavated – to the Crusades (13th century). Its holdings consist mainly of pottery and other artefacts. The nucleus of the Museum's collections is constituted by artefacts from the excavations of four cities in Palestine: Lachish (Director: J.L. Starkey, 1932-1938), Jericho (Kathleen Kenyon, 1952-1959), Jerusalem (Kathleen Kenyon, 1961-1967) and Buseirah (Crystal Bennett, 1971-1975) and Lord Crookshank's Egyptian collection and Professor Weingreen's private archaeological collection. Finds presented by Crystal Bennett from her excavations at Tawilan in Transjordan, as well as individual items donated by the Trustees of the British Museum from their surplus resources have markedly enriched the collections.



## Other College Services

The **Graduate Students Union** is the representative body for postgraduate students in College; its website [www.gsu.tcd.ie](http://www.gsu.tcd.ie), contains useful information.

### CAREERS ADVISORY SERVICE

The Service is based on campus and provides assistance to students and recent graduates of the College regarding their career options. Postgraduate students at whatever stage they are in their studies are very welcome to use the Service.

The services offered include: guidance software, skills workshops, vacancy advertising and individual guidance. The Service has its own library located in East Chapel with an extensive range of information on occupations and employers. Further details can be obtained from the website at [www.tcd.ie/careers](http://www.tcd.ie/careers) or by contacting the careers advisers directly. Their email addresses and telephone extensions are available on the website. The Service also provides a range of free directories and publications including the Careers Service Guide.

### CHAPLAINCY

The University caters not only for the intellectual and academic life of the student, but also for the social and spiritual one. Four chaplains, representing the four main Christian denominations in Ireland, provide an ecumenical chaplaincy service on campus. Based in House 27, where they have offices and a coffee room, the chaplains ensure hospitality to all students, irrespective of religious affiliation. As well as providing a forum, where students from various cultural and linguistics backgrounds can meet socially, the chaplaincy organises seminars and retreats on a regular basis and facilitates student support groups. The chaplains also gather students and staff for experiences of prayer and worship, both ecumenically and according to their respective traditions. A chaplain is available to meet students on an individual basis from 11.30am – 12.30pm and from 3.30pm – 4.30pm daily. More information about the chaplaincy can be found on [www.tcd.ie/Chaplaincy](http://www.tcd.ie/Chaplaincy)

### DAY NURSERY

The University's day nursery, open 8.00am – 5.15pm, is located on campus in a purpose-built facility. The nursery caters for children from three months to four years (most children in Ireland go to school at the age of 4). A fee is payable for use of this service. Telephone: +353-1-608 2277.

There is also a self-supporting student-parent discussion group. This informal group is open to any student (male or female) who already is, or is about to become, a parent.



## MEALS IN COLLEGE

### **Student Buffet – Main Dining Hall:**

Hot meal service from 12 (noon) – 2.30pm in term.

### **Buttery Restaurant, beside the Buttery Bar:**

Breakfast service from 7.45am – 11.00am Monday – Friday; full range of hot food, snacks and beverages to 9.00 pm.

### **Buttery Bar:**

12.00 noon – 11.00 pm during term time; full bar, beverages, sandwiches and freshly ground coffee.

### **Arts Building Coffee Shop:**

8.00am – 9.00pm in term; a large range of snacks, sandwiches, and beverages.

### **Hamilton Coffee Shop, Hamilton Building:**

8.00am – 9.00pm in term; a full range of hot meals, snacks, salad bar and beverages.

### **Westland Coffee Shop, East End 4 + 5:**

9.00am – 4.00pm in term; a full range of snacks, salad bar and beverages.

## CLUBS AND SOCIETIES

The University has a long tradition in nourishing its clubs and societies. The 94 recognised student societies cater for most interests. New societies can easily be established when required but most have long been in existence. The

University's Philosophical and Historical Societies are the oldest, formed in 1684 and 1770 respectively. Both claim famous members, Jonathan Swift and Oscar Wilde amongst them. Further information can be obtained from the Central Societies Committee website [www.csc.tcd.ie](http://www.csc.tcd.ie)

## SPORTS FACILITIES

Sport has always been important in College and sporting facilities are provided in several locations servicing the needs of individual students. Trinity has approximately 49 sports clubs, which are administered by Dublin University Central Athletic Club, otherwise known as DUCAC. On campus, there is provision for outdoor sports including athletics, cricket, gaelic games, hockey, rugby, soccer and tennis. The Luce Sports Hall accommodates badminton, climbing, squash and most other indoor sports. In the suburbs, there are extensive playing fields. A boathouse is located on the River Liffey, at Islandbridge.

Students entering College are encouraged to get involved in their University Club. Sport is the perfect way to relieve the daily stresses of College life, lectures, study and examinations and whether it is at competitive or recreational level, students are invited to take part.

Further information can be obtained from the website at [www.tcd.ie/Sport](http://www.tcd.ie/Sport)

## STUDENT HEALTH

The Student Health Service is located in modern, purpose-built premises on Trinity campus, in House 47. It aims to take a holistic approach to student health and, in addition to providing on-campus primary health care for all full-time students; it focuses on the psychological and occupational aspects of student health and health education. Student consultations are free of charge with modest fees for additional services.

Hospital treatment is supplied to EU students who are automatically entitled to a General Medical Services Card on condition that they are in possession of an E128 form from their home Government Health Service. An E111 form entitles all EU students to free emergency care. These forms must be obtained in the home country before departure.

Non-EU students are not normally entitled to national health services in Ireland and are advised to take out insurance cover for hospitalisation before leaving their home country. If you have insurance it may be possible, by applying to your insurers, to complete an Inter Fund Form which will give access to the Voluntary Health Insurance scheme in Ireland while here.



Please check with your Insurance Company back home. If you do not already have insurance cover and wish to join either the Voluntary Health Insurance Scheme or BUPA when you arrive in Ireland, details are available from the Student Health Service.

The service of a professional Student Counsellor on campus is available to all students on a strictly confidential basis. Appointments may be made through the Student Health Office or directly with the Counselling Service itself.

## DISABILITY SERVICES

Trinity College is committed to a policy of equal opportunity in education and to ensuring that students with a disability have as complete and equitable access to all facets of College life as can reasonably be provided.

Student Disability Services aim to assist students by arranging and coordinating specific educational supports such as providing information in alternative formats, making available specialist tuition for students with dyslexia and offering assistive technologies.

College needs to know about disabilities in advance of admission if particular supports or arrangements are required. Disclosure of a disability or specific learning difficulty will not adversely affect an applicant in any way. Find out more about the Disability Services at [www.tcd.ie/disability](http://www.tcd.ie/disability)



# Postgraduate Study in Trinity College

## GENERAL

Unlike the situation in some countries, entry to Irish universities is competitive, and no graduate applicant, from Ireland or any other country has an automatic right to admission. Most courses in Trinity College have a restricted number of places available for postgraduate students.

The range of studies on offer is vast and the standard set for postgraduate study is exceptionally high. This combination, together with the range of ancillary facilities in the immediate vicinity of the University, offers an almost unparalleled learning experience to all postgraduates.

Academic matters of postgraduate students are the remit of the Graduate Studies Committee, which is a subcommittee of Council and is chaired by the Dean of Graduate Studies.

## UNIVERSITY COURSE REGULATIONS

On registration students are given the University regulations (Calendar Part II), which govern academic progress through the University. In addition students who undertake a postgraduate taught course will be given a course

brochure, which details the specific requirements and regulations governing that course. Students must familiarise themselves with these regulations.

## POSTGRADUATE CO-ORDINATOR

There are postgraduate student coordinators who are responsible for ensuring that any problems postgraduate students face are attended to. For those undertaking a research degree, coordinators offer another line of contact to the College administration in addition to their supervisor and for those undertaking a taught course they, similarly, offer another point of contact, apart from the course coordinator.

## POSTGRADUATE RESEARCH STUDENTS

Higher degrees by research are normally obtained by carrying out a period of research within the University, under the supervision of a member of College staff, with subsequent submission of a thesis for examination.

Virtually all research students are initially placed on the Masters register. They may then transfer to the Ph.D.

register if their progress has been satisfactory. Such transfer usually occurs at the end of two years (more rarely one year) of full-time study. Progress is judged as satisfactory in a number of different ways in different research areas and students are advised to find out about the system in place in their area well in advance. The following research degrees are offered:

- M.Litt.
- M.Sc.
- Ph.D.

These degrees are by pure research or possess only a very small taught component. The desired average duration of the M.Litt. and M.Sc. by research degrees is two to three years full-time, whilst a Ph.D. should take from three to four years full-time.

The following Professional Higher Degrees are offered:

- Master in Engineering (M.A.I.)
- Master in Obstetrics (M.A.O.)
- Master in Surgery (M.Ch.)
- Doctor in Medicine (M.D.)

In general these degrees are available only to suitably qualified graduates who wish to further their career in their

chosen profession by undertaking a research thesis. Details of these degrees, their duration etc. are given in the alphabetical list of taught courses in the appropriate sections below.

All students undertaking a research degree are assigned to a single supervisor, though for some students there may also be an additional advisor. The supervisor's role is essentially one of mentor and students should make suitable arrangements to contact their supervisor as often as is practical and agreeable to both parties.

### POSTGRADUATE STUDENTS UNDERTAKING TAUGHT COURSES

Postgraduate students on taught programmes normally have to pass a series of examinations in order to make satisfactory progress. Taught courses are available at three levels – either at Postgraduate Diploma level, Masters level or at Practitioner Doctorate level. Individual taught courses are described under the appropriate faculty. The Masters degrees offered are:

- Master of Laws (LL.M.)
- Master in Education (M.Ed.)
- Master in Studies (In-Service Education) (M.St.)
- Master in Business Administration (M.B.A.)
- Master in Dental Surgery (M.Dent.Ch.)
- M.Phil. – a large variety of taught programmes in Arts and Social Sciences
- M.Sc. – a large variety of taught programmes in Science, Engineering and Health Sciences
- M.Sc (Mgmt.) – taught programmes in Management – in conjunction with Irish Management Institute

The above Masters degrees vary in relation to the length of time they take to complete. Normally they are either one or two years full-time.

The sole Practitioner Doctorate offered in the University at present is the D.Clin.Psych., which takes three years.

The Bachelor in Divinity (B.D.) is offered as a postgraduate qualification by examination and research thesis.

### POSTGRADUATE STUDENTS NOT READING FOR A HIGHER DEGREE

It is possible to register as a one-year or one-term postgraduate student not reading for a degree. Students of this status are offered all facilities and are free to continue their own research, and/or to read undergraduate courses of interest to them. Application for admission should be made to the Office of International Student Affairs, Trinity College by 1 March. (See the International Students section below for further details of this office).

### COMMENCEMENTS

Degrees are awarded at one of five ceremonies in the year (either February, June, July, November or December) in the University Examination Hall. Enquiries should be directed to the Proctor's Office, House 5, Front Square, College.



# Costs

## FEES

An annual fee is payable on enrolment. This fee covers matriculation, tuition and that year's examinations, including, if appropriate, examination of a postgraduate thesis or dissertation.

Fees vary depending on the subject studied and level and year of study involved. All fees are reviewed annually. Students must have paid their fees in full, and have no outstanding debts to the University in order to submit their thesis, to sit examinations and to graduate.

Fee levels are critical in determining how much it will cost to come and study in Trinity. One of the most important variables in fee level relates to whether students qualify as EU fee paying and therefore for a lower annual fee, or not.

**European Union fees are based on residency. A European Union passport or citizenship does not grant automatic entitlement to EU fees.**

As approved by Board on 3 December 2003, applications for admission are classified as EU applications or non-EU applications. An EU application is one made by a person who fulfils one or more of the following criteria:

- i) Who is ordinarily resident in the EU and who has received full-time further or higher education in the EU for three of the five years immediately preceding admission; or
- ii) Who is ordinarily resident in the EU and has worked full-time in the EU for three of the five years immediately preceding admission; or
- iii) Who holds a passport from an EU state and has received full-time further or higher education in the EU for three of the five years immediately preceding admission; or
- iv) Who has official refugee status or has been granted humanitarian leave to remain in the State and has been resident in the EU for three of the five years immediately preceding admission.

Applications from children of:

- i) EU Government officials living abroad,
- ii) semi-state officials who are on assignment in countries outside the EU,
- iii) volunteer development workers, and

- iv) certain EU officials as approved by the Department of Foreign Affairs are treated as EU applications.

**All other applications are considered to be non-EU applications. Students who have had periods of residence outside the EU are required to provide documentary evidence to support their claim for EU fee status. This evidence must be presented with the application.**

**A student's registered EU/non-EU fee paying status cannot be changed during a programme for which s/he has registered.**

**Note that full-time education in the EU does not by itself constitute ordinary residence.**

EU degree students who are liable for the full annual tuition fee may take the option of paying their annual tuition fees in two instalments. **Students classified as non-EU fee paying must pay the full fee before registration.**

A non-returnable Application Fee of €42 must be submitted with every application. Registration can take place only when fees are fully paid. Please note that cash is not accepted.

A list of the major fees payable is given in the final section of this publication. The University Calendar contains the definitive and full list.

## SUMMARY OF LIVING COSTS

In addition to your fees you must consider living expenses. These costs will vary according to your personal lifestyle. As an estimate, the following guide to essential monthly expenditure may be helpful:

|                     |               |
|---------------------|---------------|
| Rent                | €450 – €1,000 |
| Food                | €400 – €500   |
| Travel costs        | €100          |
| Electricity/Heating | €80           |

Other costs should be taken into account such as entertainment, telephoning home, books, post, stationery, laundry, toiletries, travel during holidays etc.

## FIELDWORK COSTS, COSTS OF PREPARATIONS OF THESIS/DISSERTATION

Students are personally responsible for the costs involved if they have to undertake fieldwork as part of their degree programme. They are also responsible for all costs relating to preparation and submission of their thesis or dissertation (typing, binding, photography etc.).

## AWARDS

The University offers two classes of postgraduate award which are available only to students registered, or intending to register, for higher research degrees full-time (i.e. M.Litt., M.Sc., or Ph.D.).

**Ussher Awards** are open to applicants from all countries. These awards are few in number, very competitive, provide significant maintenance (currently €8,508 per year) and fully cover fees.

**Postgraduate Studentships** (also open to applicants from all countries) are

more numerous. For EU fee paying students they provide a maintenance contribution of €4,000 and full EU fee coverage: non-EU fee paying students receive fee remission equivalent to the sum of these two components.

To be considered for a College award your complete application for admission, including the separate application form for a postgraduate College award, must be submitted in one package to the Graduate Studies Office. Successful non-EU fee paying applications for the Postgraduate Studentship should note that if your fees are not paid by any funding body, the maintenance component of the College award will be subsumed into your fee. Please note that only full-time research students are eligible for these College awards. All College awards are subject to an income limit of less than (gross) €12,700 or over after payment of fees.





# International Students

## GENERAL

The Office of International Students Affairs has general responsibility for overseas students in College: [www.tcd.ie/ISA/index.htm](http://www.tcd.ie/ISA/index.htm) provides further information.

The contribution that international students make to the intellectual drive of the University vastly exceeds their current numbers and there is an intention to attract many more international students to Trinity.

Non-EU nationals who have permission to remain in the State as students are entitled to take up casual employment (defined as up to 20 hours part-time work per week or full-time work during vacation periods) for the duration of their permission to remain. The entitlement to take up employment ceases upon the expiry of their permission to remain as a student. Such students should therefore ensure that they have sufficient finance before coming here.

The Work in Ireland Programme (USIT) provides a special work permit for students on the programme ([www.usitnow.ie](http://www.usitnow.ie)). Canadian students are provided with a 12-month permit from

Travelcuts in Canada ([www.swap.ca](http://www.swap.ca)), US students can get a four-month permit from Council Exchanges ([www.councilexchanges.org](http://www.councilexchanges.org)). The Programme is also available to students from Jamaica, Ghana, Argentina, and South Africa. To be eligible, you need to be a full-time student at a third level institution, or within six months of graduation. There are a limited number of places available so early application is advisable.

Students from countries within the EU are, of course, free to take up employment under standard EU free movement of labour regulations. However mixing employment with study is not easy, and it is recommended that students do not arrive from elsewhere in the EU without possessing the financial resources to complete their chosen course of study.

Students whose first language is not English must provide evidence of competency in this language through one of the well-established international standard tests:

| Examination                                     | Minimum Level Required                    |
|---|---|
| IELTS   | Grade 6                                   |
| TOEFL   | 213 – computer based<br>550 – paper based |
| Cambridge Certificate of Advanced English       | Grade C                                   |
| Cambridge Certificate of Proficiency in English | Grade C                                   |



# Climate, Travel, Visas, Accommodation

## GENERAL

Dublin enjoys a relatively mild climate but in the winter months (November, December and January), it is usually somewhat chilly and damp. Summer temperatures can reach 33.4°C but are on average 14.5°C, and average winter temperatures are fairly high at 4.9°C. Rainfall in Dublin is low, averaging about 750mm per year, but small amounts fall regularly. Warm clothes and a raincoat are therefore a must. Linen and warm bedclothes are not always provided.

Students who wish to bring electrical appliances with them should note that the voltage in Ireland is 220v.

On the 1 January 2002, Ireland, along with eleven other countries (Austria, Belgium, Finland, France, Germany, Greece, Italy, Luxembourg, Netherlands, Portugal and Spain) adopted a single currency. The Euro was introduced as the official currency on 9 February 2002.

All of the major Irish banks are close to the University, and there are two Allied Irish Bank service machines on the campus.

You are recommended to open an Irish bank account as soon as possible after

you arrive in Dublin. Most banks offer two types of accounts; current (or checking) accounts, which usually do not yield interest, and deposit accounts that do. A letter from your home bank may be of use in establishing your credit status. Visa and Mastercard (Access) are widely accepted throughout Ireland.

## VISAS

If you are a resident of the European Union, you do not need a visa to enter and live in Ireland. Students from North America may enter the country without an entry visa. However, they must apply for a visa to the Aliens' Office in Dublin, within 7 days of arrival in the country. The address is:

Aliens' Office, Garda Headquarters, Dublin Metropolitan Area, Harcourt Square, Harcourt Street, Dublin 2. Telephone +353-1-873 2222. Further information can be obtained on-line from [www.justice.ie](http://www.justice.ie)

For information on entry visa requirements contact:

Visa Section, Immigration Division, Department of Justice, Equality and Law Reform, 13/14 Burgh Quay, Dublin 2, Ireland. Telephone +353-1-616 7700,

email [visamail@justice.ie](mailto:visamail@justice.ie) or [immigration\\_mail@justice.ie](mailto:immigration_mail@justice.ie)

All non-American non-EU students should contact the nearest Irish Embassy or Consulate for information on visa requirements before arrival and must report to the Aliens' Office on arrival.

All applicants should apply as early as possible, especially if an Irish Visa is required. Please note that the Graduate Studies Office does not normally assist in the processing of visa applications.

All students receive a letter of offer confirming their acceptance at Trinity College from the Dean of Graduate Studies.

**Please note that ALL non-EU fee paying students must pay their full tuition fees prior to registration.**

## ACCOMMODATION

A limited number of research students may be accommodated on campus. However, the modern and comfortable Trinity Hall of Residence owned by the University offers extensive accommodation opportunities. It is situated in its own grounds about 2.5 miles from Trinity and is linked to the

city centre by a fast tramline. Find out more about College accommodation and the on-line application facility at [www.tcd.ie/Accommodation/student.htm](http://www.tcd.ie/Accommodation/student.htm)

Many postgraduate students find accommodation in shared houses or small self-catering flats and apartments in the inner city. Houses and flats vary in price, depending on size, facilities and location. The best place to look for somewhere to rent is the property pages of Dublin's daily newspaper, the Evening Herald. Available from most newsagents in Dublin, and discounted in the Students' Union Shop in Trinity, the Evening Herald has listings of houses, flats and apartments to rent and share.

Advertisements also appear on the many noticeboards around College, especially in Front Arch and the Accommodation Office. These are generally looking for people to share accommodation and if you do not know anyone in Dublin, may be a good option.

During Freshers' Week, the Accommodation Office provides a room with telephones, maps, and adverts for accommodation, from which you can coordinate your efforts. The telephones especially are invaluable as you will be making dozens of calls in reply to adverts. For more details on this free service, contact the Accommodation Office ([www.tcd.ie/Accommodation/](http://www.tcd.ie/Accommodation/)).

Some estate agents have a letting service with lists of properties on their books. Hooke and MacDonald offer an online property search, as do Lisney and Accommodation Lettings. These services are free, allowing you to search by price, area and number of bedrooms. However, the properties are generally at the higher end of the market. You can also call in to the estate agents offices and ask for a list of properties.

For further information see [www.tcd.ie/Dublin\\_Life/arrival/accomm\\_renting.htm](http://www.tcd.ie/Dublin_Life/arrival/accomm_renting.htm).



# Academic Year, Registration, Orientation

## THE ACADEMIC YEAR

The academic year is divided into three terms: Michaelmas term (9 weeks teaching, October – December); Hilary term (9 weeks teaching, January – March); Trinity term (6 weeks teaching, April – May).

### **2005 – 2006 Academic Year:** Teaching Terms

#### **Michaelmas Term:**

Monday, 10 October 2005 –  
Friday 16 December 2005

#### **Hilary Term:**

Monday, 9 January 2006 –  
Friday, 10 March 2006

#### **Trinity Term:**

Monday, 3 April 2006 –  
Friday, 12 May 2006

## REGISTRATION

Research students may register either in October or in April. However as most taught postgraduate courses commence in October, Autumn registration is the major registration time and will take place on 29 and 30 September 2005. In April 2006, new entrant and continuing registration is from 4 April until 15 April.

**Please note that these dates are subject to change.**

## POSTGRADUATE ORIENTATION DAY

During registration week a number of formal and informal events are held to introduce newly enrolled students to life in College; these include an orientation session for the current academic year, specifically tailored for postgraduate students.









# Arts (Humanities)



# Arts (Humanities)

Arts (Humanities) is one of the largest areas in the University in terms both of undergraduate and postgraduate students. The area includes a wide range of disciplines such as History, Philosophy, Music, the History of Art and Architecture, Religions and Theology, Gender and Women's Studies; and also professional disciplines such as Education, Psychology, and Law. Research leading to a higher degree (M.Litt., M.Sc., or Ph.D.) can be undertaken in any of these areas. In addition, a variety of Masters degrees including M.Ed., M.Sc., M.St., M.Phil. and LL.M. can be taken by a combination of taught course and dissertation. Courses leading to professional qualifications are available in areas such as Psychology and Education. Law, Education, History and History of Art have particular expertise in the Irish field but also have wider interests, and there are connections with institutions in the UK, Continental Europe as well as further afield.

All areas in Arts (Humanities) are situated on campus. Most are in the Arts Building, adjacent to the Ussher Library, but Law and Music have premises in the older parts of College, New Square and Parliament Square

respectively, while Psychology has specially designed premises in Áras an Phiarsaigh. They are within two or three minutes' walk of each other and of the main University administrative areas.

## CENTRE FOR GENDER AND WOMEN'S STUDIES

*Academic Staff Contact:*

Dr Maryann Valiulis

*Telephone:* +353-1-608 2225/1975

*Fax:* +353-1-608 3997

*Academic Staff Numbers:*

1 full-time, 12 part-time

*Postgraduate numbers:*

12 M.Phil.; 7 M.Litt., 2 Ph.D.

*Email:* [wscentre@tcd.ie](mailto:wscentre@tcd.ie)

*Internet:* [www.tcd.ie/Women\\_Studies](http://www.tcd.ie/Women_Studies)

The Centre for Gender and Women's Studies was established in Trinity College as the Centre for Women's Studies in July 1988 and has recently expanded its title to reflect the increasing diversity of its interests. Focusing on gender provides a more comparative lens with which to view issues of equality and difference. It also allowed the Centre to expand its field of feminist inquiry into such areas as masculinities and sexualities. The

Centre's activities include teaching, research, publications, public seminars and lectures.

## Postgraduate Programmes

The Centre's postgraduate programmes (M.Phil./P.Grad.Dip., M.Litt. and Ph.D.) address current scholarship on women, gender and sexualities. Drawing on insights and perspectives from a number of academic fields, the programmes are both interdisciplinary and multidisciplinary. These programmes develop conceptual and research skills that may be used both in further research and in diverse occupations.

## Research Unit

The Centre has recently received funding to enhance its research capacity and formally establish a Research Unit. Its research agenda focuses on education and equality, change and diversity in family structures and work-life balance. In the most recent past, the Centre has undertaken nationally and internationally funded projects on such diverse topics as harmonising work and family life, women and political decision-making, gender history, women entrepreneurs and employment equality.

## Research Interests

Individual research interests in the Centre are both interdisciplinary and multidisciplinary. Specific research interests include an analysis of the role and representation of women in history and contemporary Irish society; women and employment; gender and leadership; changing gender role attitudes; psychological development of women and girls; women's writing; gender and family/household structures; violence against women; feminist theories of law and legal issues of equality and reproductive rights; masculinities; gender, religion and violence; history of the Irish feminist movement; and feminist philosophies and theories.

## Community Outreach

The Centre fosters links with the community through its extra mural and community outreach courses as well as through its public lectures and seminars. Recent activities have included an ongoing lecture series, co-sponsored with the Department of Education and Science, on 'Boys, Men and Masculinities'; a conference on 'Fathers and Mothers – Dilemmas of the Work-Life Balance', 2002; conferences on 'New Research in Irish Feminism', in 2003 and 2001. The Centre also held the editorship of the Irish Journal of Feminist Studies from 2000-2003.

## EDUCATION

*Academic Staff Contact:*

Professor Mona O'Moore

*Telephone:* +353-1-608 3568

*Academic staff numbers:* 18 full time

*Postgraduate numbers:*

30 research, 850 taught

*Internet:* [www.tcd.ie/Education](http://www.tcd.ie/Education)

Education accepts suitably qualified candidates for the degrees of Master in Education, Master in Science (Educational Management), Master in Science (Guidance and Counselling), Master in Science (Science Education), Master of Science (I.T. in Education) and Master of Studies. Also available is a Doctorate in Education (D.Ed.). In each case students are required to follow a programme of coursework and to submit a research dissertation for the award of the degree. In addition the normal research degrees of M.Litt. and Ph.D. are also offered. Also available are the professional primary (H.Dip. Primary) and secondary (H.Dip.Ed.) teaching qualifications. In addition there are a range of in-service postgraduate diploma programmes.

Education provides its professional training in association with the Education Centres in Ireland, the Christian Brothers, St. Catherine's College of Home Economics, the Church of Ireland College of Education, Coláiste Muire Marino and Froebel College of Education, Sion Hill.

## HISTORY OF ART AND ARCHITECTURE

*Academic Staff Contact:*

Dr Philip McEvansoneya

*Telephone:* +353-1-608 1012/1995

*Fax:* +353-1-677 1438

*Academic staff numbers:*

4 full time academic

*Postgraduate numbers:* 17 research

*Internet:* [www.tcd.ie/History\\_of\\_Art](http://www.tcd.ie/History_of_Art)

History of Art and Architecture has an international reputation as the major centre of expertise in the study of Irish art. Professor Anne Crookshank, (now a fellow emeritus), who founded the area, is one of the leading authorities on Irish painting in the period since 1660. Professor Roger Stalley, who currently holds the Chair, is known for his work on medieval architecture and sculpture. Dr Edward McParland is recognised as a leading expert on Irish architecture in the 18th and 19th centuries.

In recent years the area developed expertise in the study of Spanish art and its research profile has also extended into the field of British and Irish painting. Many distinguished graduates have benefited from supervision, in some cases their work forming the basis of major exhibitions in the National Gallery of Ireland. With its particular expertise in architectural history, both state and semi-state organisations have

looked to the staff for advice on architectural matters.

The area has also received a number of research grants both from the EU and the Irish State. A number of postgraduates have been awarded prestigious Government of Ireland research scholarships, a member of staff and a previous postgraduate have been awarded post-doctoral fellowships under the same scheme.

The distinguished architecture of the College provides a fine setting for the study of the history of art. It also provides an ideal location for postgraduate research. The National Gallery of Ireland and the National Museum are both less than five minutes walk away, and the Chester Beatty Library, renowned throughout the world for its collections of Eastern and Near Eastern art, has premises nearby in Dublin Castle. Another valuable resource is the Irish Architectural archive, situated in Merrion Square. The Archive forms the national repository for drawings, photographs and other records of Irish buildings. Particularly important for prospective research students is the College Library, which provides excellent support for research into British and Irish art. Research outside these fields is more difficult, as holdings in continental languages other than English tend to be limited.

Enquiries are welcome from candidates interested in Medieval architecture and sculpture; Irish art and architecture; European architecture in the 18th and 19th centuries; Spanish painting and sculpture between 1600 and 1800; British and Irish art between 1600 and 1914.

A one-year taught M.Phil. in Irish Art History is also offered on an annual basis (see separate entry).

### **IRISH SCHOOL OF ECUMENICS**

*Research Coordinator:*

Professor John D'Arcy May

*Telephone:* +353-1-260 1144

*Fax:* +353-1-260 1158

*Academic staff number:* 20

*Postgraduate numbers (research and taught):* approximately 100 per year

*Internet:* [www.tcd.ie/ise](http://www.tcd.ie/ise)

The Irish School of Ecumenics is an academic institute, Christian in its inspiration and ethos, interdenominational in structure and personnel. It exists to promote, through research, teaching and outreach activities, the unity of Christians, dialogue between religions, and work for peace and justice in Ireland and abroad. Its resources are available to churches and other appropriate bodies committed to unity, dialogue and peace.

ISE is located on two campuses, one in Dublin at Milltown Park, which is three miles from the main Trinity campus and the other in Belfast. Students also have access to the full range of facilities available on the main college campus.

The School offers taught postgraduate courses such as the M.Phil in Ecumenical Studies, M.Phil in International Peace Studies, M.Phil in Reconciliation Studies and Postgraduate Diploma in Conflict and Dispute Resolution Studies. Research degrees (Ph.D. and M.Litt.) are also available. Applications for a research degree should be submitted to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

### **LAW**

*Academic Staff Contact:*

Dr Hilary Delany

*Telephone:* +353-1-608 1276/1125

*Fax:* +353-1-677 0449

*Academic staff numbers:*

16 full-time, 12 part-time

*Postgraduate numbers:*

31 research, 45 taught

*Internet:* [www.tcd.ie/Law/Lawhome.html](http://www.tcd.ie/Law/Lawhome.html)

Law at Trinity College (Ireland's oldest Law School) is strongly committed to the service of society through education, research and public service activities. An appropriate balance between the academic and practical



aspects of law is achieved by virtue of the fact that most of the staff have experience of private practice. Together the staff and students form a vibrant community inspired by the values of mutual respect and cooperation.

The area's commitment to rigorous legal scholarship has placed it at the forefront of legal research in Ireland, with staff members involved in writing leading textbooks and commentaries on administrative law, constitutional law, European law, environmental law, equity, family law, human rights law, land law, private international law, torts and trade union law. In addition, Law is home to one of Ireland's leading legal periodicals, the Dublin University Law Journal and to a student law journal, the Trinity College Law Review.

Public service is another very important aspect of the Law School's activities. Many staff and student members are heavily involved with the governmental, commercial and voluntary sectors, both nationally and internationally, in such areas as children's rights, constitutional law reform, environmental policy, family law reform, legal aid, minority rights, public interest and pro bono litigation, social welfare policy and women's rights. At graduate level Law admits students to read for the degrees of M.Litt. and Ph.D. by research and also offers a taught postgraduate course leading to the award of the LL.M. degree.

### **MEDIEVAL HISTORY**

*Academic Staff Contact:*

Professor Christine Meek

*Telephone:* +353-1-608 1525/1791

*Fax:* +353-1-608 3995

*Academic staff numbers:*

5 full-time academic, 2 full-time IRCHSS post-doctoral fellows

*Postgraduate numbers:*

25 research, 4 taught

*Email:* cmeek@tcd.ie

*Internet:* [www.tcd.ie/Medieval\\_History/](http://www.tcd.ie/Medieval_History/)

Medieval History accepts suitably qualified students for the research degrees of M.Litt. and Ph.D., for which candidates proceed directly to the preparation of a thesis, without preliminary coursework.

Three of the five staff members specialise in Irish history, including the history, society and culture of Gaelic Ireland; archaeology, settlement and military aspects; and political developments, government and relations with England, Scotland and Wales. These areas are also well served by the resources of Trinity College's world-famous library, so that the area is particularly well fitted to accept students wishing to prepare theses on topics within this range. Other areas of specialisation are ecclesiastical and intellectual history; the medieval papacy and empire; the history of Italy; medieval historiography; literary and cultural topics; and the history of women. Staff are accessible, ready to listen to students' ideas and open to interdisciplinary approaches.

The area provides training in palaeography, diplomatics and Latin. A regular programme of graduate seminars are run, which are a major focus and meeting point for staff and graduate students at all stages of their research. It also provides a valuable training ground in the presentation of academic work. There are opportunities for tutorial teaching, so that graduate students will normally have teaching experience by the time they complete their thesis.



The area has a research centre equipped with computers and a specialised library of medieval works, to which all graduate students have permanent access, and which contributes to the sense of cohesion and the friendly atmosphere among the graduate student body. The staff pride themselves on their ability and willingness to give personal attention to graduate students and on the atmosphere of mutual assistance and respect among staff and students that prevails.

A taught M.Phil course in Medieval History is also offered.

## MODERN HISTORY

*Academic Staff Contact:*

Professor Jane Ohlmeyer

*Postgraduate Coordinator:*

Professor Eunan O'Halpin

*Telephone:* +353-1-608 1020

*Fax:* +353-1-608 2291

*Academic staff numbers:*

12 full-time academic

*Postgraduate numbers:*

51 research, 6 taught

*Internet:* [www.tcd.ie/Modern\\_History/](http://www.tcd.ie/Modern_History/)

Modern History enjoys an international research profile in a number of areas: the political, military, social, intellectual and cultural history of Ireland from the 16th century to the present day; and

Western European history, especially France and Germany in the 16th, 17th, 18th and 20th centuries (especially warfare in the 20th century). Research is also pursued in other areas, including the history of science, early modern universities, colonial Africa, and modern India.

Modern History regularly sponsors international conferences and symposia and runs three major research seminars – Irish and British History (1500-1900), Contemporary Irish History (post-1921), and Modern European History. These provide a forum for distinguished scholars, postgraduates and postdoctoral fellows from throughout the world to present papers. The area also plays an active role in the activities of Trinity's leading humanistic research centres, the Centre for Irish-Scottish Studies, the Centre for Contemporary Irish History and the Sutherland Centre for Globalisation. Within Ireland, Modern History has fostered close links with the other Dublin universities and Queen's University, Belfast. It also enjoys personal and institutional links with a number of other institutions in Belgium (Ghent), France (École des Hautes Études en Sciences Sociales, Centre de Recherches Historiques, Paris; Toulouse, Tours), Germany (Berlin and the Herzog August Bibliothek in Wolfenbüttel), and the UK (Aberdeen, Edinburgh and Strathclyde).

Trinity's library resources – manuscript, early printed books, the 19th and 20th century printed collections – are outstanding by any international measure. They have been further strengthened by the recent acquisition of the 19th century newspaper file, of key online resources – Early English Books Online, Eighteenth-Century Collections Online, Oireachtas Debates Online, and the Times Digital Archive. Trinity is also a unique location at the hub of the most important libraries and archives in Ireland. These include the National Library of Ireland, the National Archives, Marsh's Library, the Royal Irish Academy and the Chester Beatty Library. Other research centres (especially at the Public Record Office and the British Library, London) are easily and cheaply accessible.

Since the 1930s Modern History has played a leading role in the creation of a critical school of modern Irish historical scholarship and it produces a growing number of Ph.D. theses on European history (since 1500). The area's postgraduates hail from all over the world and form a well-established and vibrant community. The staff are committed to helping postgraduates prepare for careers within and beyond academia. We offer postgraduate training and a variety of career development workshops, together with teaching opportunities for senior postgraduates.

Many of our postgraduates have secured competitive funding for their studies from external or College sources. In addition to the College postgraduate awards, the R.B. McDowell Ussher Fellowship enables an exceptionally well-qualified candidate to pursue research for a Ph.D. in modern history. The fellowship, awarded triennially for a three-year period, covers fees plus €8,508 maintenance a year. The Nesbitt Ussher Fellowship is awarded on the same terms, in either History or Botany.

A taught M.Phil. course in Reformation and Enlightenment Studies and a taught M.Phil. in Modern Irish History are also available.

## MUSIC

*Academic Staff Contact:*

Mr Michael Taylor

*Postgraduate Coordinator:*

Dr Jacqueline Waeber

*Telephone:* +353-1-608 1120

*Fax:* +353-1-670 9509

*Academic staff numbers:*

5 full-time, 2 part-time

*Postgraduate numbers:*

15 research, 39 taught

*Internet:* [www2.tcd.ie/Music/](http://www2.tcd.ie/Music/)

Trinity has had a long and active involvement in postgraduate degrees in music by research. The staff are active



in many fields of research and have plenty of experience of supervising postgraduate degrees in a wide range of subjects. The area benefits from the College Library which is the country's biggest, and from excellent support facilities, especially in the domain of computer technology. Degrees offered are Ph.D. and M.Litt. and a one-year taught Diploma or two-year taught M.Phil. in Music and Media Technologies, which is run jointly with Electronic and Electrical Engineering.

The M.Litt. in Musicology may either be taken as an independent degree based on a thesis of 60,000 words or treated as a stepping stone to a Ph.D. Those converting to the status of Ph.D. produce a thesis of 100,000 words in which an 'original contribution to knowledge' is made. Candidates wishing to transfer to the Ph.D. register from the M.Litt. register are required to submit a chapter of the proposed thesis, accompanied by a chapter plan of the whole, and to attend a viva voce examination. In order to transfer, candidates are expected to demonstrate

that they have arrived at a clear definition of their research project, and that it has the potential to fulfil the requirements of a Ph.D.

## PHILOSOPHY

*Academic Staff Contact:*

Dr James Levine

*Telephone:* +353-608 1529

*Fax:* +353-1-671 5760

*Academic staff numbers:*

8 full-time, 2 part-time

*Postgraduate numbers:*

10 research, 6 taught

*Internet:* [www.tcd.ie/Philosophy/](http://www.tcd.ie/Philosophy/)

Philosophy has always been an important part of the College curriculum since Trinity was founded in 1592. The Chair of Moral Philosophy was established at Trinity College in 1837, the School of Mental and Moral Science in 1904 and the Department of Philosophy in 1962. Undoubtedly, the College's most significant contributions to philosophy to date have come from George Berkeley (1685-1753) and Edmund Burke (1729-1797). In the 19th and early 20th centuries the major influences on Trinity philosophy were Platonism, German Idealism, Berkeley, and Hume.

In recent years staff have continued to maintain a strong interest in these areas, but has broadened to include

contemporary analytic and continental philosophy, including philosophy of mind, philosophy of language, metaphysics and epistemology, philosophy of religion, the history of analytic philosophy, ancient philosophy, Kant, phenomenology, connections among philosophy, psychology, and psychoanalysis, and moral and political philosophy.

We have a long and active involvement in postgraduate study. Students receive close supervision. The area also has the advantage of the country's biggest research library, a copyright library, and excellent support facilities, especially in the domain of computer technology. Philosophy accepts suitably qualified students for the degrees of M.Litt. and Ph.D., for which candidates proceed directly to the preparation of a research thesis, without preliminary coursework.



## PSYCHOLOGY

*Academic Staff Contact:*  
Professor Ruth Byrne

*Postgraduate Co-Ordinator:*  
Dr Fiona Newell

*Telephone:* +353-1-608 3914

*Fax:* +353-1-671 2006

*Academic staff numbers:*  
15 full-time, 2 part-time academic

*Postgraduate numbers:*  
55 (approx.) by research alone,  
60 on taught programmes.

*Internet:* [www.tcd.ie/Psychology/](http://www.tcd.ie/Psychology/)

The research activities of Psychology are organised in three broad streams. These are entitled 'Culture, Systems and Development', 'Health, Clinical and Counselling' and 'Neuroscience and Cognition'. The area considers applications for postgraduate research across the wide range of its expertise. However, intending applicants are strongly advised to communicate with potential supervisors before submitting their application.

### Culture, Systems and Development

The Culture, Systems and Development stream focuses on behaviour in its cultural, social and technological context, including the analysis of personal development and organisational change. Within this framework, current programmes of research concern:

- i) Life course psychological change;
- ii) Language acquisition and development, particularly in atypical populations;
- iii) Origins, diagnosis and treatment of Dyslexia;
- iv) Human behaviour and accident causation;
- v) Organisational safety systems and culture.

Three research groups play a large role in the research of this stream. The Children's Research Centre (joint initiative of Psychology and Social Studies) is concerned with research, policy and practice in the service of Irish children, particularly those who are disadvantaged. The Aerospace Psychology Research Group undertakes research in human and organisational factors in aviation safety and the Dyslexia Research Group carries out basic research on developmental dyslexia and on the design of diagnostic tools.

### Health, Clinical and Counselling

The Health, Clinical and Counselling stream is responsible for the provision of Psychology's postgraduate professional training courses in Clinical Psychology and Counselling Psychology, the teaching of psychology to Health Science students, and the development of a diverse range of research

programmes. These include studying the contribution of environmental and socio-cultural factors in health, illness and healing, as well as a major programme on functional brain imaging of cognitive mechanism in addiction.

The Health Psychology Research Group has established two major areas of research activity: the influence of culture on the experience and expression of physical and mental health; and the rehabilitation of amputees, particularly in relation to phantom experiences and prosthetic embodiment.

### Neuroscience and Cognition

The Neuroscience and Cognition Research stream has an active programme of research in the area of brain and mind. It is organised in the following groups: Cognitive science of thinking (experimental and computational studies of thinking, reasoning and problem solving); Behavioural neuroscience (mapping by the brain of the world around us; the role of hippocampalcortical connections in memory and in repairing the brain after damage); Brain rehabilitation (ways of repairing the brain after damage and methods to improve brain function in normal brains); Object perception (recognising common and uncommon objects through sight and touch); Sensory systems and perception (visual and

vestibular representation of the world and the neural structures responsible) and Information Theory (quantitative principles of information processing).

Members of the Neuroscience and Cognition team are also members of the Trinity College Institute of Neuroscience (TCIN), a unique interdisciplinary institute conducting parallel laboratory and clinical investigations of the mechanisms of change to the nervous system.

### General

Postgraduate research students are expected to attend research seminars, which take place every week during the teaching terms. Each postgraduate is expected to present a research proposal at an appropriate early point in the development of their ideas. A research-skills course is usually provided in alternate years.

Psychology runs an annual appraisal system for all postgraduate students aimed at facilitating and monitoring their progress throughout the course of their research. Two independent members of staff are assigned as the students appraisal committee at the beginning of their studies. As part of this system each student is required to present a progress report to their appraisal committee every year.

Psychology staff have ongoing collaborations with researchers within Trinity College and abroad. Some are also members of the recently established Trinity College Institute of Neuroscience ([www.trinityneuroscience.com](http://www.trinityneuroscience.com)) and the Trinity College Children's Research Centre ([www.tcd.ie/childrensresearchcentre](http://www.tcd.ie/childrensresearchcentre)). Some of the many leading international institutions with which we have links are University College London, UK; Oxford University, UK; UC Berkeley, USA; NASA Ames, USA and Max Planck Institute, Germany.

Psychology is well equipped with a student computer laboratory, multimedia facilities, EEG and behavioural neuroscience laboratories, video-observation suites and sound attenuated experimental testing suites and MRI analysis capability. There are excellent contacts with hospitals and medical services. Staff receive significant research funding from many sources, including the Wellcome Trust, the Health Research Board, the European Commission, the US National Institute of Health, the Irish Research Council for Science, Engineering and Technology, the Irish Research Council for Humanities and Social Sciences, Enterprise Ireland, the HEA Fund for collaborative research between Irish Universities and Colleges and Media Lab Europe, and the Royal Society Ireland.

Three taught postgraduate courses are also available – Higher Diploma in Psychology, Postgraduate Diploma in Clinical Supervision, Master of Science in Counselling Psychology and Doctorate in Clinical Psychology.

## RELIGIONS AND THEOLOGY

*Academic Staff Contact:*

Professor Nigel Biggar

*Telephone:* +353-1-608 1297/3397

*Fax:* +353-1-677 2694

*Academic staff numbers:*

6 full-time, 2 part-time

*Postgraduate numbers:*

10 research, 1 taught

*Internet:* [www.tcd.ie/Bib\\_Theo](http://www.tcd.ie/Bib_Theo)

Religions and Theology offers postgraduate degrees by research. The degrees open to postgraduate candidates are the M.Litt. and the Ph.D.

In the Biblical area, research interests deal with the origins of Israel, the Gospels and the history and social world of Second Temple Judaism. A solid knowledge of the biblical languages is presupposed. Where necessary there is the possibility of taking intermediate and advanced level courses at undergraduate level. On the theological side, topics from Historical and Philosophical Theology, Hermeneutics and Theological Ethics can be chosen in accordance with the staff's areas of

research. Further particulars can be obtained from the handbook and website.

In addition to the various College postgraduate awards, Religions and Theology has a number of awards at its disposal, notably the Elrington Postgraduate Award and the Hincks Prize for research in the area of the Hebrew Bible. These awards are made either to individuals or may be shared, based on the consideration of individual cases by the internal Graduate Committee. A limited amount of funding is also available for travel, either for research purposes or to attend a conference.

In addition Religions and Theology runs the postgraduate Bachelor in Divinity degree. Students holding appropriate qualifications (detailed in the Calendar Part II) and registered for the B.D. must undertake an examination based on eight papers and submit a thesis of 40,000 words.

## NAMED DEGREE COURSES

### BACHELOR IN DIVINITY (B.D.)

COURSE CODE 157

*Course Coordinator:*

Professor Andrew Mayes

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1297

*Email:* [jwelch@tcd.ie](mailto:jwelch@tcd.ie)

*Internet:* [www.tcd.ie/Bib\\_Theo/post.htm](http://www.tcd.ie/Bib_Theo/post.htm)

The degree of Bachelor in Divinity is a higher degree awarded on the basis of examination and thesis. Appropriately qualified candidates, accepted for the degree must complete an examination in eight papers and a thesis of 40,000 words within five years. Candidates study independently for the examination, but may obtain advice and a bibliography on each subject





from Religions and Theological Studies. Details of admission to the B.D. register and of the examination and thesis are available from the course coordinator.

### **DOCTOR IN CLINICAL PSYCHOLOGY (D.Clin. Psych.)**

COURSE CODE 608

*Course Director:* Dr Kevin Tierney

*Duration:* Three years, full-time

*Closing Date:* 28 February 2005 for entry in July 2005. Applications should be addressed directly to the Doctoral Programme in Clinical Psychology, Department of Psychology, Áras an Phiarsaigh, Trinity College, Dublin 2.

*Secretarial email addresses:*

amatthew@tcd.ie and

shmccorm@tcd.ie

*Internet:*

[www2.tcd.ie/Psychology/clinical.html](http://www2.tcd.ie/Psychology/clinical.html)

The D.Clin.Psych. is a three-year professional training course in clinical psychology. This practitioner doctorate aims to combine effectively the three components of training – research expertise, academic knowledge and clinical experience. Consistent with the core philosophy of the course, there is a strong developmental focus, with particular emphasis on the clinical application of attachment theory. A core value in the course is the emphasis on the importance of linking

theory and practice, informed by the scientist/practitioner philosophy of integrated training in research, academic and clinical knowledge and experience.

Within the three years, the course provides an intensive and systematic programme of training, equipping each student to meet the challenges facing clinical psychology and to make a unique contribution to the Irish Health Services.

The course currently attracts a high number of applicants and competition for the limited number of places is intense. Requirements for selection include a primary honors degree in psychology with at least an upper second-class award or equivalent. Good research skills and relevant experience are an asset. Candidates are required to hold graduate basis for registration with the Psychological Society of Ireland. The course is structured so that the academic teaching typically takes place in term time for one and a half days per week. In addition, each placement is preceded by a teaching block of approximately four weeks duration. Students complete six clinical placements during the course, each of approximately five months duration, providing knowledge, skills and experience to work with as wide a range of clients as possible. Research training is continuous across the programme.

Course requirements include continuous clinical assessment, examinations and a research portfolio combining reports of clinical activity, small and large scale research projects and demonstrating research competency across a range of methodologies. Progress on the course is assessed by an end-of-year review which each student must pass.

Research interests of staff include attachment theory, developmental psychopathology, health psychology, research methods, power and therapy; forensic psychology, discourse analysis, health psychology, risk perception, quality of life perception and applied behaviour analysis.

All graduates of the course are required to complete an additional three-year contract of employment with one of the three sponsoring area health boards following completion of the course.

## DOCTOR IN EDUCATION (D.Ed)

COURSE CODE 724

*Course Coordinator:* Dr Andrew Loxley

*Duration:* Five years part-time

*Closing Date:* 30 April 2005 for entry in October 2005. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608-1587

*Email:* loxleya@tcd.ie

*Entrance Requirements:* Masters (or equivalent) and relevant professional experience.

The Doctor in Education is a taught programme that comprises of eight structured modules and a substantial research thesis component. The D.Ed. is aimed at educational and related professionals who wish to study at a doctoral level. The intention is to prepare professionals to meet the challenge of working in a changing educational landscape at various levels (classroom based, management and leadership, policy making) and across different sectors. The programme will enable students to develop firstly their critical understanding of a range of contemporary issues and secondly, their capabilities in undertaking research. More specifically the D.Ed. aims to:

- Enhance and deepen professional knowledge and understanding of domain specific educational issues;
- Develop expertise in and a critical understanding of, the nature, design and undertaking of empirical and non-empirical research;
- Produce an original study that demonstrates the ability to conceptualise, design and undertake educational research;
- Enable students to work autonomously as well as collaboratively in professional or equivalent environments and;
- Make an original contribution to knowledge.

The majority of modules will be presented during the first three years of the programme – three of which are devoted to critically exploring a range of cognate contemporary issues in education from a multidisciplinary perspective within Irish, European and global contexts. A further three modules are dedicated to research methodology, with an additional two advanced modules offered in the fourth year of the programme. Assessment for six of the eight modules is through individual written assignments of between 5,000 – 5,500 words each. The thesis (which will not be more than 80,000 words in length), will act as the focal point

of the programme and can be seen as a development of a student's critical understanding of the taught modules and an opportunity to explore in substantial depth an area of their own practice. Teaching will mainly be seminar based and will usually take place at weekends and early evenings.

Entry to the programme will be restricted to students who have already completed or are about to complete a masters level qualification. Serious and equal consideration will be given to those applicants who may not hold a master level qualification, but nonetheless demonstrate through other means the potential to undertake doctoral level study. It is also a requirement that applicants have at least a minimum of three years of experience in an educational or related field.

## MASTER OF LAWS (LL.M.)

COURSE CODE 607

*Course Coordinator:* Dr Neville Cox

*Duration:* One year, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1350

*Fax:* +353-1-677 0499

*Email:* ncox@tcd.ie

*Internet:* [www.tcd.ie/Law/LL\\_M.html](http://www.tcd.ie/Law/LL_M.html)

This programme is delivered over one academic year. Students are examined in six optional subjects and complete a research dissertation of up to 20,000 words over the academic year on an approved theme. Students attend special seminars designed to encourage a high level of research and analysis. The subjects offered might typically include the following: International Commercial Dispute Resolution; Partnership Law; Legislative Drafting; Product Liability in Europe; Restitution; Medicine and the Law; International anti-trust Law; European Human Rights Law; International Law; Contemporary Problems in Irish Constitutional Law; International Trade Law; Comparative Freedom of Expression; International Economic Law; European Intellectual Property Law; European Merger Law; European Telecommunications Law; EU VAT Laws; Feminism and The Law; Equality Law; International Business Regulation; Alternative Dispute Resolution; Distribution Law. The Law School retains the right not to offer any of these subjects in any given year.

Applications for admission to the LL.M. programme are invited from graduates holding a good honors law or law-based interdisciplinary degree. Admission to the programme is at the discretion of the LL.M admissions committee.

To obtain a brochure in respect of this programme, please contact the course coordinator by email.

### **MASTER IN EDUCATION (M.Ed.)**

COURSE CODE 111

*Course Coordinators:* Ms Elizabeth Oldham/Dr Andrew Loxley

*Duration:* Two or three years  
(the first year being full-time)

*Closing Date:* 28 February 2005. Applications should be addressed directly to the Master in Education Programme, Room 4048, Department of Education, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1723/1587

*Email:* master.education@tcd.ie

*Internet:* [www.tcd.ie/Education/MasterinEducation.htm](http://www.tcd.ie/Education/MasterinEducation.htm)

The graduate course leading to the degree of Master in Education is organised and administered within Education. The course is intended for persons who wish to gain a comprehensive background in the basic disciplines relating to the study of education, together with knowledge of contemporary developments in the field of education. It seeks to equip those who aspire to positions of responsibility in teaching, teacher education, health sciences education, educational administration and educational research

with an ability to participate effectively in the advancement of knowledge, the formulation of policy, the promotion of innovation, and the improvement of practice. Typically the class contains international as well as Irish students, and all students learn much from one another.

The degree programme is in two parts. Part I, which must be undertaken on a full-time basis, involves coursework extending over one academic year. Part II, which may be taken on either a full-time or a part-time basis, involves research and the writing of a dissertation. The dissertation may be submitted not earlier than one year and not later than two years after the completion of the coursework. Thus, the total duration of the degree programme is either two or three years on the register.

Since its introduction, the M.Ed. degree programme at Trinity College has sought to combine a broad theoretical base with specialised study in education. This has been reflected in the organisation of the coursework, which provides for a core curriculum complemented by optional courses, chosen in accordance with the student's particular needs and interests. The specialisation is continued at the research stage of the degree through detailed investigation of a particular topic.

There are six tracks within the general structure of the programme. The degree of M.Ed. at Trinity College may be taken with specialisation in one of the following areas: Foundation, Curriculum and Evaluation Studies; Guidance and Counselling; Educational Management and Administration; Language Education; Mathematics Education; Health Sciences Education. It may not be possible to offer all tracks every year.

Candidates for the degree should be graduates with a good honors degree or hold equivalent qualifications. Good performance in the examination for the Higher Diploma in Education, or other graduate level courses, may be regarded as an indicator of suitability for the course. Candidates should normally have at least two years of teaching experience. However, graduates in fields such as history, philosophy, psychology, administration or health sciences, who do not have such experience but who wish to relate their particular fields of competence to the practice of education, may also be considered.

### **MASTER OF STUDIES (M.St.)** COURSE CODE 232

*Course Coordinator:* Dr Peter Conroy

*Duration:* One year, part-time

*Closing Date:* 31 July 2005. (Late applications may be considered if places remain available after the closing date.) Applications should be addressed

directly to the Master of Studies Programme, Department of Education, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1290

*Email:* inseredu@tcd.ie

*Internet:* [www.tcd.ie/Education/In\\_Service/msintro.html](http://www.tcd.ie/Education/In_Service/msintro.html)

The M.St. degree courses are designed to enhance the theoretical and practical expertise of teachers in relevant curriculum and leadership areas.

The Master of Studies degree aims to enable teachers and other suitably qualified persons who are professionally interested in education, to gain a higher degree whilst continuing in full-time employment and possibly residing some distance from the university. It requires students to submit a dissertation (30,000 – 40,000 words) based on research of some element of their practice. The precise choice of topic should reflect their pre-Master studies within the Division of In-Service Education and is made in collaboration with the academic staff. During the academic year, individual and group supervision and relevant academic inputs support the students.

Entry to the degree is normally restricted to qualified teachers recognised by the Department of Education and Science, or other graduates of recognised institutions who have completed a diploma and two

post-diploma modules from the Division of In-Service programme, achieving normally a second-class honors or higher grade.

### **M.Sc. COURSES**

#### **COUNSELLING PSYCHOLOGY (M.Sc.)**

COURSE CODE 205

*Course Director:* Dr Rita Honan

*Duration:* Two years, full-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1489

*Email:* honanr@tcd.ie

*Internet:* [www.tcd.ie/Psychology/Counselling.html](http://www.tcd.ie/Psychology/Counselling.html)

This intensive course provides a professional training in counselling psychology for a yearly intake of up to 20 students. It is accredited by the Psychological Society of Ireland. In the first year the course offers graduates in psychology with at least a second class honors degree and some related experience, academic and practical skills training in counselling psychology and related research. After five weeks of concentrated, full time coursework and personal development work, two full days per week are spent on placement and two to three in classes. The course offers

a wide range of placement options in community, health, mental health, education and private practice settings, as well as welcoming new, student recommended sites, particularly for those students residing outside the greater Dublin area. At least two different placements are required during the two years of the course. The second year involves further training in counselling theories and practice, and students conduct a research dissertation related to counselling psychology, initiated during the summer before entering second year. Personal development work, including individual therapy, is required throughout the two years.

There are three full-time and two part-time core course staff members. Courses are taught and supervision provided by both core staff and other practitioners from varied theoretical orientations. Humanistic theory underlies the course. Psychodynamic and systemic perspectives are also emphasised, and training in cognitive behavioural approaches is provided. Practical placements may continue through the summer and always follow the placement site's calendar, not that of College. Some students may be required to take a supplementary summer placement and/or do additional prescribed work during the summer. Guidelines for all aspects

of the course are provided. All components of the course must be passed, i.e. practical (placement, course supervision), academic (multiple written reports); research (dissertation), and personal development, as well as members of the Examination Board recommending the student as suitable to receiving the M.Sc. in Counselling Psychology degree.

Graduates of this course are skilled to conduct mental health assessments and therapy with adolescents and adults (there is also one child placement), individuals, couples and groups. They are employed by Health Boards, e.g. the National Counselling Service, Refugee and Asylum Seekers Service, Autism Services; Voluntary agencies, e.g. St. John of God's Services, Brothers of Charity Services, National Association for the Deaf; third level student counselling services; private practice; research settings; and multiple other locations. They are remunerated on the Community Psychologist Post Scale as published by the Department of Health and Children.

Applicants with good written and spoken English (due to the nature of this profession) from other EU and non-EU countries are very welcome to apply.

## **EDUCATIONAL GUIDANCE AND COUNSELLING (M.Sc.)**

COURSE CODE 663

*Course Director:* Dr Michael L. O'Rourke

*Duration:* Two years, part-time.

*Closing date:* 30 April 2005. Applications should be addressed directly to the Educational Guidance and Counselling Programme, Room 4048, Department of Education, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1723

*Email:* master.education@tcd.ie

*Internet:* [www.tcd.ie/Education/MScinEducationalGuidanceandCounselling.htm](http://www.tcd.ie/Education/MScinEducationalGuidanceandCounselling.htm)

In providing the M.Sc. degree in Educational Guidance and Counselling for current practitioners in the education system, Education draws on its extensive experience in relation to the M. Ed. degree, and particularly on its experience in relation to Guidance and Counselling. The overall aim of this intensive course is to develop the professional capability of guidance counsellors, careers and appointments officers and other senior professionals in second-level schools.

Applications for admission are considered from guidance counsellors, careers and appointments officers and senior teachers with a good honors degree or who hold equivalent



qualifications. Good performance in the examination in the Higher Diploma in Education or the Higher Diploma in Guidance and Counselling may be regarded as an indicator of academic ability. Candidates should normally have at least two or three years of experience as a guidance counsellor, secondary teacher, principal or deputy principal.

The course involves two years of attendance at the university. Teaching is scheduled for Fridays and Saturdays. Participants attend a range of courses in each of the two years. In addition, there are summer activities and a summer

school involving specialist one-day seminars. Each module comprises 24 hours of teaching and there will be a total of 396 hours of coursework. In the second year students also conduct research and complete a dissertation of 40,000 words maximum.

The coursework is organised on a modular basis. Part 1 of the degree involves coursework and associated exercises, Part 2 involves the conduct of research and the writing of a dissertation. Students are required to satisfy the examiners in relation to both Part 1 and Part 2 of the degree.

The coursework is assessed by:

- Monitoring of attendance and class participation
- The completion of a satisfactory training exercise in academic writing
- The submission of four research papers of 5,000 words
- The completion of certain practical exercises.

The topics of the research papers relate to the contents of the modules and are agreed by the student with the Course Director.

All students are required to complete certain practical assignments as follows:

- Students are expected to submit one counselling case study, together with a critical analysis of the interventions used.
- Students are expected to obtain experience of personal counselling with a counsellor or therapist approved for the course. A minimum of ten counselling sessions over the two years of the course is required.
- Students are expected to prepare and submit for evaluation a comprehensive plan for Guidance and Counselling in their particular school/college or in other professional areas appropriate to the students' interests.



- Students are expected to submit a Personal Development Report. This should reflect the students' awareness of their personal and professional progress during this course.
- The practical outcomes of the programme are monitored by the Course Director and the Academic Committee.

The following components are included in the programme:

- Advanced counselling and psychotherapy theory
- Vocational guidance: theory and practice
- Micro counselling skills
- Advanced counselling skills
- Advanced psychometrics and testing (BPS Levels A and B)
- Information and communications technology
- Life-span development, adult education and adult guidance
- Grief and bereavement counselling
- Family systems therapy
- The law and the counsellor
- Adolescent psychology and adolescent suicide
- Addiction studies
- Alcoholism counselling

- The psychology of adult children of alcoholics
- Evaluation and accountability, practical appraisal systems
- The psychology of entrepreneurship
- Personality typing
- Video case supervision in counselling
- Statistics and research methods
- Attachment theory and intergenerational conflict
- Group counselling, group dynamics
- Racism, interculturalism and intercultural counselling
- Living systems theory, handling crises and self-organisation
- Poetry, literature, psychotherapy and bibliotherapy
- Spirituality and counselling
- Management and guidance: career paths and work coaching
- Managing the guidance service: practicalities of organising an effective guidance and counselling service.

There are close collaborative links with the Department of Psychology, University of Indiana South Bend and in the areas of postgraduate research, programme design and teaching, which relate to this M.Sc.

## **EDUCATIONAL MANAGEMENT (M.Sc.)**

COURSE CODE 212

*Course Coordinator:*  
Dr Seamus McGuinness

*Duration:* Two years, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Educational Management Programme, Department of Education, Room 102, 3-4 Foster Place, Trinity College Dublin, Dublin 2.

*Telephone:* +353-1-608 2642

*Email:* pmcgnss@tcd.ie

*Internet:* [www.tcd.ie/Education/MscinEducationalManagement.htm](http://www.tcd.ie/Education/MscinEducationalManagement.htm)

The M.Sc. degree in Educational Management is designed to provide management personnel in education with the knowledge and skills, which will enable them to operate efficiently and effectively in their particular institutions.

Applications for admission are accepted from management personnel in education who are:

- Graduates of the University of Dublin with a first or second-class moderatorship or with a first or second-class honors in a professional degree course, or
- Graduates of recognised universities with first or second-class honors degrees, or

- Graduates of the University of Dublin or of other recognised universities who hold the Higher Diploma in Education with first or second-class honors, or
- Holders of recognised professional qualifications obtained through examination who have spent at least three years in study and who have been employed for at least two years in a senior administrative position in education, or
- Holders of qualifications which, in the opinion of the Admissions Committee, are the equivalent of a university degree with first or second-class honors.

The course contains the following components: Principles of Management; the Law and Education; Educational Planning; Financial Management; Management of Curriculum; Operations and Marketing Management; Personal and Inter-personal Skills; Human Resource Management; Management Information Services; Strategic Issues in Educational Provision and Educational Management; Statistics; Research Methodology.

### **I.T. IN EDUCATION (M.Sc.)**

COURSE CODE 641

(Jointly with Engineering and Systems Sciences)

*Course Director:* Mr Brendan Tangney

*Duration:* Two years, part-time

*Closing Date:* 30 April 2005. Late application may be considered if places remain available after the closing date. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3661

*Email:* mscitedu-info@cs.tcd.ie

*Internet:*

[www.cs.tcd.ie/courses/mscitedu/](http://www.cs.tcd.ie/courses/mscitedu/)

Computer Science and Education offer a joint multidisciplinary program leading to a Masters Degree in I.T. in Education. The program is run over two years and the timetable is designed to facilitate participation by practicing teachers and other professionals. The aim of this course is to produce a graduate who will be able to play a leadership role in the development and use of I.T. for educational and training purposes. This includes developing instructional technology and content as well as using I.T. in the areas of training, and lifelong learning at all levels (1st, 2nd and 3rd) of the formal education system.

Graduates of the programme will have carried out a substantial piece of research, which might typically involve the development of I.T. based tools, or teaching materials, and their operation and evaluation in a learning situation.

Admission is normally restricted to applicants who have achieved an upper second-class honors degree, or better, a primary degree. However equivalent qualifications or experience are taken into account. Preference will be given to applicants who have at least three years experience. A qualification in Computer Science is not required but applicants are expected to be computer literate. Applicants meeting the necessary requirements will normally be interviewed.

The course is run on a part-time basis. In the first year there are formal classes on Friday afternoons and Saturday mornings. The second year is devoted to the completion of a research dissertation.

### **SCIENCE EDUCATION (M.Sc.)**

COURSE CODE 249

*Course Coordinator:*

Dr Philip Matthews

*Duration:* Two years, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1579

*Email:* pmttews@tcd.ie

*Internet:* [www.tcd.ie/Education/Main/MScinScienceEducation.htm](http://www.tcd.ie/Education/Main/MScinScienceEducation.htm)

This M.Sc. is intended for practising teachers of science in second level schools, and for others who have a professional interest in science education.

The principal aim of the course is to enlarge participants' awareness of the issues and results of research that bear on the practice of science education – especially as they relate to the quality of students' learning in laboratory and classroom.

The course consists of four main components:

- i) Taught courses focusing on issues in school science education;
- ii) Taught courses designed to update participants' knowledge in science;
- iii) A period of experience related to a science-based commercial enterprise;
- iv) Research in an aspect of science education.

Applicants should be graduates with a first or second-class honors degree, or graduates who hold the Higher Diploma in Education with first or second-class

honors or holders of professional qualifications that the Admissions Committee accept as the equivalent of a first or second-class honors degree. In addition, applicants who are teachers should have at least three years' experience of teaching science in one or more second level schools.

## **M.PHIL. COURSES**

### **ECUMENICAL STUDIES (M.Phil. (Ecum.)/P.Grad.Dip.)**

COURSE CODE 170/172

*Course Coordinator:* Dr Andrew Pierce

*Duration:* Taught M.Phil. – one year, full-time; two years, part-time. Teaching takes place in Dublin over two ten-week terms, October-December 2005 and January-March 2006.

*Closing Date:* 30 June 2005. Places may be offered after this date, subject to availability. Applications should be addressed directly to Ecumenical Studies Programme, Irish School of Ecumenics, Bea House, Milltown, Dublin 6.

*Telephone:* +353-1-260 1144

*Fax:* +353-1-260 1158

*Email:* [ecumsec@tcd.ie](mailto:ecumsec@tcd.ie)

*Internet:* [www.tcd.ie/ise](http://www.tcd.ie/ise)

A plurality of religious and ethical traditions shares the one inhabited world or *oikoumene*. From perspectives

informed by Christian theology, Ecumenical Studies focuses on three key arenas of dialogue in order to promote a critical understanding of relationships within and between traditions – within Christian traditions, between Christianity and other religious traditions, and with others committed to global justice and peace-making.

The programme involves taught courses, a dissertation and fieldwork. All students are expected to take the core courses in three areas – studies in justice and peace, interreligious studies and interchurch studies – and to specialise by taking the optional courses in one of these areas. An integral element of this programme is participation in fieldwork, both in Dublin and on a programmed visit to Northern Ireland.

The assessment will comprise four 6,000 word essays to be submitted no later than 1 May 2006, and a 20,000 word dissertation, to be completed by 15 September 2006.

All students are registered on a common Master's programme and follow the same assessment procedures for the four essays required. Students must complete three obligatory units – Areas I, II and III, each of which is assessed by an essay. A fourth assessment essay is based on optional courses in the student's chosen area of specialisation. Subject to satisfactory

performance in the four essays, students may proceed to submission of a dissertation for the M.Phil. Students who do not reach that standard, but who nonetheless are judged by the Court of Examiners to have reached a satisfactory level of performance, may on the determination of the Court be recommended for the award of a Postgraduate Diploma in Ecumenical Studies, without further assessment.

Applicants should normally have an honors degree at second-class level or higher in Theology or Religious Studies, or an equivalent degree in any subject plus three years theological study at a satisfactory level. Students not meeting these criteria may exceptionally be considered at the discretion of the Dean of Graduate Studies.

### **INTERNATIONAL PEACE STUDIES (M.Phil. (Peace Studies)/P.Grad.Dip)**

COURSE CODE 220/243

*Course Coordinator:* Dr Iain Atack

*Duration:* Taught M.Phil. – one year, full-time; two years, part-time.

Teaching takes place in Dublin over two terms, October-December 2005 and January-March 2006.

*Closing Date:* 30 June 2005. Places may be offered after this date, subject to availability. Applications should be

addressed directly to International Peace Studies Programme, Irish School of Ecumenics, Bea House, Milltown, Dublin 6.

*Telephone:* +353-1-260 1144

*Fax:* +353-1-260 1158

*E-mail:* [peacesec@tcd.ie](mailto:peacesec@tcd.ie)

*Internet:* [www.tcd.ie/ise](http://www.tcd.ie/ise)

This programme is designed to provide students with a deeper understanding of the problems of conflict and its resolution from an interdisciplinary perspective. It offers to students from different primary disciplines the opportunity for mature reflection on the wide range of issues of peace and development, while at the same time affording the opportunity for specialised study through a research dissertation. A particular aim of the programme is to address the wider ethical and philosophical questions that arise concerning problems of peace and war in the context of the social sciences.

Students attend five courses over one year (full-time) or over two years (part-time). The programme is divided into three areas of specialisation:

International Peace Studies; Ethics in International Affairs; Peacebuilding and Development. Students choose one area of specialisation.

All students attend the course on The Politics of Peace and Conflict, preferably

in the first year for part-time students. Students specialising in International Peace Studies must also take the courses on International Politics and either Ethics in International Affairs or The Politics of Development. Students specialising in Ethics in International Affairs must take the course of that name. Students specialising in Peacebuilding and Development must take either Conflict Resolution and Non-violence or The Politics of Development. The remaining courses chosen are optional for each specialisation. The list of courses may change from those above.

**Assessment:** Students are assessed on the basis of four essays of 6,000 words – one from each of the three core courses, and one from an optional course – to be submitted no later than the 1 May, and an 20,000 word dissertation, to be completed by 15 September.

All students are registered on a common Master's programme and follow the same assessment procedures for the four essays required. Subject to satisfactory performance in the four essays, students may proceed to submission of a dissertation for the M. Phil. degree. Students who do not reach that standard, but who nonetheless are judged by the Court of Examiners to have reached a satisfactory level of performance may,



on the determination of the Court, be recommended for the award of a Postgraduate Diploma in Peace Studies, without further assessment.

Admission requirements: Applicants should normally have an honors degree at second-class level or above. Students not meeting these criteria may exceptionally be considered at the discretion of the Dean of Graduate Studies.

### **IRISH ART HISTORY (M.Phil.)**

COURSE CODE 704

*Course Director:* Dr Yvonne Scott

*Duration:* One year, full-time.

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2480/3151

*Email:* triarc@tcd.ie

*Internet:* [www.tcd.ie/History\\_of\\_Art/IARC](http://www.tcd.ie/History_of_Art/IARC)

The M.Phil. in Irish Art History comes within the ambit of the newly established Irish Art Research Centre within History of Art and Architecture. This programme was developed in response to the growing international interest in Irish art, and consequent demand for research and educational opportunities in the discipline. The

programme comprises a number of courses designed to explore traditions and innovations in Irish painting, sculpture, architecture and other visual artefacts in their national and international context, and in relation to other disciplines.

To achieve its aims, the content encompasses six key components: a general survey of developments from Megalithic to Contemporary Irish art; the detailed study of selected periods of excellence; engagement with themes and issues of debate; analysis of approaches and methodologies of research; exposure to current research interests of staff, guest specialists, and other postgraduate students; experience of personal research on a relevant subject chosen by the student. Students are assessed on a range of coursework assignments, and a dissertation of not more than 20,000 words.

In exploring a visual culture that spans several millennia, the exceptional examples of Irish art and architecture – on campus and within easy walking distance of Trinity College, as well as elsewhere in Ireland – provide an invaluable resource enabling the first hand study of Irish art.

Applicants should have a good honors (upper second class or higher) degree in an appropriate discipline, such as art history, architecture, history, literature, philosophy, language studies, politics, and social studies, and demonstrate a keen interest in visual art. Not all qualified applicants can be accepted due to a restricted quota.

### **MEDIEVAL HISTORY (M.Phil.)**

COURSE CODE 225

*Course Coordinator:*

Dr Katharine Simms

*Duration:* One year, full-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to Dr Katharine Simms, Department of Medieval History, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1790/1791

*Fax:* +353-1-608 3995

*Email:* [mksimms@tcd.ie](mailto:mksimms@tcd.ie)

*Internet:* [www2.tcd.ie/Medieval\\_History/gradstudy.html](http://www2.tcd.ie/Medieval_History/gradstudy.html)

Medieval History has a well-established one-year taught course leading to the degree of M.Phil. and consisting of a combination of coursework, the selection of an area of specialisation and the preparation of a dissertation of some 20,000 words. Courses are provided for beginners in palaeography and in Latin and/or other relevant



languages, though it is also possible to cater for students who already have some knowledge in these areas.

The classes are small so that personal attention can be given and each student's study plan can be tailored to his/her own needs and interests. All students are allocated a tutor, whom they see on a weekly basis and who will also be the supervisor of their dissertation. A central part of the course is the M.Phil. seminar each week, which contributes greatly to the sense of cohesion and cross-fertilisation of ideas that is a feature of the M.Phil. class.

M.Phil. students are also free to attend the weekly graduate seminar at which M.Litt. and Ph.D. students read papers, and are accorded the same treatment as other graduate students, with permanent access to the equipment and library in the medieval research centre, where they have always been given a warm welcome.

The M.Phil. course is complete in itself, leading to the award of a postgraduate degree, but it also provides an opportunity to obtain in a friendly atmosphere, basic training which can then be applied to more advanced graduate work leading to the degrees of M.Litt. or Ph.D.

### **MODERN IRISH HISTORY (M.Phil.)**

Awaiting approval from the University Council at time of going to the printers.

*Postgraduate Coordinator:* Professor Eunan O'Haltain

*Duration:* One year, full-time

*Closing Date:* 30 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2. Late applications may be considered subject to the availability of places.

*Telephone:* +353-1-608 1020

*Fax:* +353-1-608 2291

*Academic staff numbers:*  
12 full-time academic

*Postgraduate numbers:*  
51 research, 6 taught

*Internet:* [www.tcd.ie/Modern\\_History/](http://www.tcd.ie/Modern_History/)

The course is intended as an introduction for well-qualified Humanities or Social Sciences graduates to research in Modern Irish History. The

emphasis is on the study of problems, issues and epochs in a broadly comparative context. As well as taking subject specific modules in various aspects of the political, military, social, economic, religious and cultural history of modern Ireland, students are exposed to a rigorous research training programme. The course is drawing on the current interests of the staff, on the rich resources of Trinity College Dublin's library and of the adjacent Dublin libraries (the National Library of Ireland, the National Archives and Marsh's Library). The course may also serve as an introduction to graduate research for students wishing to go on to pursue a doctorate in Modern Irish History.

The course work consists of four elements.

- i) First, every student takes two major subjects of study from such topics as 'Kingdom and Colony in sixteenth-century Ireland, 1500-1607'; 'War and Society in early modern Ireland'; 'Big house and hidden Ireland: representation and reality in rural Ireland 1650-1840'; 'Ireland in crisis, 1791-1803'; 'The Famine and Beyond'; 'Emigration and the Irish Overseas'; and 'Issues in Anglo-Irish relations, 1920-1973'. It may not be possible to offer all the topics every year.

- ii) Second, there is an emphasis on generic research training. As well as exploring the increasing variety and complexity of technical tools widely available for historical research, the M. Phil provides structured professional training, information management skills and the capacity for continued, often self-directed, life long learning.
- iii) Third, students seeking the M. Phil submit a dissertation of no more than 15,000 words based on primary sources. This might form the basis for further historical research or lead to publication.
- iv) Fourth, students attend research seminars in Irish and British History (1500-1900) and/or in Contemporary Irish History (post-1921). These seminars provide a forum for distinguished scholars, postgraduates and postdoctoral fellows from throughout the world to present papers.

### **MUSIC AND MEDIA TECHNOLOGIES (M.Phil./P.Grad.Dip.)**

COURSE CODES 257/260

Entry via Diploma. For full details see P.Grad.Dip section detailed below.

### **PSYCHOANALYTIC STUDIES (M.Phil./P.Grad.Dip.)**

COURSE CODE 214

*Course Coordinator:* Dr Ross Skelton

*Duration:* One year, full-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1528

*Email:* rskelton@tcd.ie

*Internet:*  
[www.tcd.ie/Philosophy/psych.htm](http://www.tcd.ie/Philosophy/psych.htm)

The course is intended as an introduction for well-qualified graduates to the history and theory of psychoanalysis. The foundation of the course is the two main readings of the Freudian text and the subsequent development of Freud's ideas in two main directions. First, the 'object relations' theory of Melanie Klein and Wilfred Bion and second, the 'return to Freud' project of Jacques Lacan which is given substantial coverage. There is also an introduction to the thought of Carl Jung. A comparative approach to different thinkers is taken using discussion groups.

Candidates are assessed by a combination of course papers and a short dissertation. Students are required to attend the weekly seminars and lectures and to write satisfactory

seminar essays, which are assessed by the internal examiners. For the candidate to proceed to the dissertation this assessment must be positive. In cases where course work is satisfactory but the dissertation is either not presented or is not of M.Phil. standard, a Postgraduate Diploma may be awarded. The M.Phil. degree can only be awarded on the basis of the dissertation.

### **RECONCILIATION STUDIES (M.Phil./P.Grad.Dip.)**

COURSE CODE 667

*Course Coordinator:* Mr David Tombs

*Duration:* Taught M.Phil., one year, full-time; two years, part-time.

Teaching takes place in Belfast over two terms, October-December 2005 and January-March 2006.

*Closing Date:* 30 June 2005. Places may be offered after this date, subject to availability. Applications should be addressed directly to Reconciliation Studies Programme, Irish School of Ecumenics, 683 Antrim Road, Belfast, BT15 4EG, Northern Ireland.

*Telephone:* +44-28-9077 0087

*Fax:* +44-28-9037 3986

*Email:* reconsec@tcd.ie

*Internet:* [www.tcd.ie/ise](http://www.tcd.ie/ise)

M.Phil in Reconciliation Studies is designed to address the challenge of developing a fuller, more complex, and more systematic understanding of theoretical and practical approaches to reconciliation. The programme grows out of and addresses the needs and experiences of people in Northern Ireland. Thirty years of violence have taught people some costly wisdom about reconciliation, which needs both to be consolidated and further applied in Northern Ireland and to be offered to others who have experienced similar conflicts. Reciprocally, the Reconciliation Studies programme will also be probing conflicts around the world for lessons to be applied in Northern Ireland and more widely.

Students take five of the eight courses offered and are assessed on four of them. The courses include: Dynamics of Reconciliation; Theology of Reconciliation; Conflict Transformation; Northern Ireland – Conflict and Reconciliation. Hermeneutics and Reconciliation; Resources of Reconciliation in World Religions; When the Fighting Stops: Trauma and Healing in Individuals and Communities; and Conflict and Corporate Identity: Ethnicity, Nationalism and Religion. Students also participate in a one-week summer school in Dublin, which varies in content from year to year. In addition seminars will be organised in support of the programme.

The assessment will comprise four 6,000 word essays to be submitted no later than 1 May, and a 20,000 word dissertation to be completed by 15 September.

All students are registered on a common Master's programme and follow the same assessment procedures for the four essays required. Subject to satisfactory performance in the four essays, students may proceed to submission of a dissertation for the M. Phil. degree. Students who do not reach that standard, but who nonetheless are

judged by the Court of Examiners to have reached a satisfactory level of performance may, on the determination of the Court, be recommended for the award of a Postgraduate Diploma in Reconciliation Studies, without further assessment.

Admission requirements: Applicants should normally have an honors degree at second-class level or above. Students not meeting these criteria may exceptionally be considered at the discretion of the Dean of Graduate Studies.



## REFORMATION AND ENLIGHTENMENT STUDIES (M.Phil./P.Grad.Dip.)

COURSE CODES 171/675

*Course Coordinator:*

Dr Helga Robinson-Hammerstein

*Duration:* One year, full-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1045

*Email:* hhmrmrstn@tcd.ie

*Internet:* [www.tcd.ie/Modern\\_History/mphilhome.php](http://www.tcd.ie/Modern_History/mphilhome.php)

The course is intended as an introduction for well-qualified arts graduates to research into problems and methods in intellectual and religious history, drawing on the resources of Dublin libraries (especially Trinity College and Marsh's Libraries) and staff research interests. The course work will consist of three elements.

- i) Two major subjects of study in each of the Michaelmas and Hilary terms, which will be taught by means of a weekly two-hour seminar in each subject. The subjects available will be: Michaelmas Term: (a) Reform and Reformation in Central Europe, 1480-1530; (b) Science and Religion in Early Modern England; Hilary

Term: (a) War and Society in Early Modern Europe (b) The Scottish Enlightenment.

- ii) A course in ancillary skills extending over the Michaelmas and Hilary terms in Analytical and Historical Bibliography.
- iii) A dissertation arising out of one of the subjects studied, for which preparation will be made in Trinity term.

In addition there will be a series of research seminars in Trinity Term, in which members of staff and visiting speakers will present papers on topics relevant to the course. Candidates are assessed by a combination of course papers and a short dissertation.

## WOMEN'S STUDIES (M.Phil./P.Grad.Dip.)

COURSE CODE 204/643

*Course Coordinator:*

Dr Maryann Valiulis

*Duration:* M.Phil.: One year, full-time, two years, part-time; P.Grad.Dip.: one year, full-time, two years, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2225

*Email:* wscentre@tcd.ie

*Internet:* [www.tcd.ie/Womens\\_Studies/cfws\\_taught.html](http://www.tcd.ie/Womens_Studies/cfws_taught.html)

This course is designed to provide a critical understanding of the current scholarship on the position and representation of women in society. Drawing on insights and perspectives from a number of academic fields, the course is both interdisciplinary and multidisciplinary. The core of the course is provided by modules in Feminist Theories and Feminist Research Methodologies. Participants also undertake optional courses drawn from a range including the following: Creative Writing; Feminism and Law; Feminist Literary Criticism; Gender and Globalisation; Gender, Religion and Representation; Gender and Violence, Irish Feminism from 1860; Masculinities; Psychological Development of Girls and Women; Social Psychology of Gender Roles; Women and Learning; Women and the Family; Women in Art; Women in Modern European History; Women, Work and Employment (note: not all courses are available every year).

The entry to the course is via the M.Phil. programme. The award of M.Phil. will depend on the satisfactory completion of four course essays and a dissertation. The award of a Postgraduate Diploma will depend on the satisfactory completion of five course essays. The Executive Committee reserves the right to make the final decision.



M.Phil. students are required to write a dissertation of approximately 15,000 – 20,000 words on an approved topic relating to women or gender. The dissertation is due in September of the year of entry for full-time students and September of year two for part-time students. Postgraduate Diploma students are required to write a fifth essay which is due in July of the year of entry for full-time students and July of year two for part-time students.

### POSTGRADUATE DIPLOMAS

Some Masters courses have the option of a Postgraduate Diploma in cases where the taught course has been satisfactorily completed but a dissertation has not been submitted. Such P.Grad.Dip. courses are not listed below as they are not open to entry as separate options from their parent Masters course i.e. students apply for entry to the appropriate Masters course.

### CLINICAL SUPERVISION (PSYCHOLOGY) (P.Grad.Dip.)

COURSE CODE 712

*Course Director:* Dr Rita Honan

*Course Coordinator:* Ms Mary Creaner

*Duration:* One year part-time – 120 hours. There is a further requirement of 60 hours field practice and a minimum of 12 hours off-site clinical supervision of this practice.

*Closing Date:* 30 April 2005. (Late application may be considered if places remain available after the closing date). Applications for admission must be secured from and submitted directly to: Course Administrator, Postgraduate Diploma in Clinical Supervision (Psychology), Department of Psychology, Aras an Phiarsigh, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2094/2970

*Email:* creanerm@tcd.ie

This professional training course is a one year part-time course which is offered as a specialised post qualification course. It is aimed at experienced and practising psychologists and psychotherapists who wish to further their professional development, and train as supervisors.

The main areas that have informed the development of this programme include counsellor development, assessment and evaluation, professional responsibility, management and administration.

- Module 1 – Clinical supervision: theory, process and skills
- Module 2 – Clinical supervision relationship, roles and tasks
- Module 3 – Clinical supervision and contexts
- Module 4 – Clinical supervision: legal and ethical Issues
- Module 5 – Peer and group supervision

There is continuous assessment of both practical and theoretical work throughout the course. Competence is developed through a combination of lectures, workshops, discussions, clinical supervision, peer supervision, written assignments and field practice.

### CONFLICT AND DISPUTE RESOLUTION STUDIES (P.Grad.Dip.)

COURSE CODE 673

*Course Coordinator:* Ms Paulyn Marrinan Quinn, B.A. (Dubl.), F.C.I.Arb., S.C.

*Duration:* Taught Evening Diploma – one year, part-time. Teaching period runs from October to May with 2 evening sessions (6 hours) per week over 24 teaching weeks. There are also two Saturday workshops. Two references are required upon application.

*Closing Date:* 30 July 2005. Places may be offered after this date, subject to availability. Applications should be addressed directly to Conflict and Dispute Resolution Studies Programme, Irish School of Ecumenics, Bea House, Milltown, Dublin 6.

*Telephone:* +353-1-260 1144

*Fax:* +353-1-260 1158

*Email:* cdrssec@tcd.ie

*Internet:* www.tcd.ie/ise

The Conflict and Dispute Resolution Studies programme is designed for those for whom Conflict Analysis, Management and Resolution may be a valuable tool and added skill in their area of work. Those who complete the programme will have some understanding of the existing processes available and be aware of the new non-adversarial approaches to providing remedy and redress.

Teaching methodologies include lectures, interactive lectures, group discussions, case studies, and video materials. Students are encouraged to keep a reflective journal throughout the course and this will be one of the resources drawn upon for review sessions.

There are four course units:

- i) Understanding conflict;
- ii) Aspects and dynamics of conflict;
- iii) Theories and processes of conflict resolution;
- iv) Processes and skills for moving beyond conflict.

The assessment is based on two essays, approximately 8,000 words each, and a practical skills-based assessment to be completed by 1st August. One essay will focus on underlying theory and philosophy and the other essay will be on an area of specialisation in Unit 4 (which may be related to a particular work context).

To complete the Diploma satisfactorily a pass mark of 40% must be achieved in each element of the assessment.

Admission requirements: Applicants should normally have an honors degree and three years' relevant experience, or another third level qualification and five years' relevant experience. Students not meeting these criteria may exceptionally be considered at the discretion of the Dean of Graduate Studies.

### **IN-SERVICE EDUCATION (P.Grad.Dip.)**

COURSE CODE 190

*Course Coordinator:* Dr Peter Conroy

*Closing Date:* 31 July 2005. (Late applications may be considered if places remain available after the closing date.)

Applications should be addressed directly to the In-Service Education Programme, Department of Education, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1290

*Email:* [inseredu@tcd.ie](mailto:inseredu@tcd.ie)

*Internet:* [www.tcd.ie/Education/In\\_Service/index.html](http://www.tcd.ie/Education/In_Service/index.html)

There are a variety of in-service programmes for teachers and those with a professional interest in education, ranging from half day seminars to modules which, taken together in

groups, comprise an In-Service Diploma Course. Single programmes of the half-day, one-day and weekend type are advertised as they occur.

A credit system is used within the Division to facilitate transfer between the various Master programmes offered, and also with other recognised educational institutions. The number of credits is linked to the number of contact hours required for an individual module. Each module comprises 30 credits, with four modules (120 credits) making up a diploma. To obtain credits the student must achieve at least a pass in the designated assignment. Each module is assessed using a variety of methods, including projects, case studies, reports, examinations and curriculum design. The integration of theory and practice is stressed in the content of the modules and in the assessments. Where possible, experiential and active learning and teaching strategies are used in the presentation of modules.

A student can begin a programme of study at several points during the academic year as each module is free standing and registration is for each separate module. A minimum of 120 credits is required for the award of a diploma that must normally be completed within three years of the date of registration of the first module.

Modules are normally taught outside of school working hours to facilitate teachers continuing in full-time employment. As the Division of In-Service Education collaborates with the Association of Education Centres (in addition to other institutions) modules are offered in Education Centres in several locations throughout the country in addition to Trinity College.

Students with the requisite undergraduate qualifications who obtain a diploma of second or first class honors standard, and who perform to the same standard in two other post-diploma M.St. Qualifying Modules in research methods, may apply for admission to the Master of Studies programme. Students are required to complete a module in educational research methods before beginning the Master's programme.

Entry qualifications: teachers recognised by the Department of Education and Science, or others who are graduates of recognised institutions and have a professional interest in education. Diploma students need to be aware that entry to the postgraduate diploma does not mean that one is automatically eligible for entry to the M.St. programme.

Modules, leading to the award of a Diploma in Management in Education, and a Diploma in Educational Studies

are offered. These modules include: addiction studies; child protection and abuse; contemporary issues; co-operative learning; curriculum design and assessment; dance education; drama in education; information and communication technologies; intercultural education; management of change; management of human relationships; multiple intelligences; social and interpersonal education; special needs; staff development and selection; subject specialisms.

### **MUSIC AND MEDIA TECHNOLOGIES (P.Grad.Dip./M.Phil.)**

COURSE CODES 260/257

(Jointly with Engineering and Systems Sciences)

*Course Coordinator:* Dr Dermot Furlong

*Duration:* P.Grad.Dip.: one year, full-time; M.Phil.: two years, full-time. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Closing Date:* 30 June 2005

*Telephone:* +353-1-608 1864

*Email:* [dermot.furlong@tcd.ie](mailto:dermot.furlong@tcd.ie)

*Internet:* [www.mee.tcd.ie/mmt/index.php](http://www.mee.tcd.ie/mmt/index.php)

In recognition of a shared interest in Information Technology and a growing awareness of its relevance for music,

Electronic and Electrical Engineering and Music initiated Postgraduate Diploma and Masters programmes in Music and Media Technologies in Trinity in 1996.

A particular feature of these programmes is a balanced approach to musical and technological topics. Musically, a strong emphasis is placed on the development of adaptable compositional skills, while technological topics are addressed from both a hands-on workstation/studio exposure and a fundamental mathematical and scientific basis, which focuses on musically relevant issues.



The first year is a self-contained Postgraduate Diploma course which provides the necessary musical and technological skills to allow creative individuals to engage in computer-assisted composition and production, apply software tools for the music and New Media industries and/or enter the arena of 'music-on-screen' production for New Media products.

Continuing to a second year of study toward a M.Phil. degree is an option, which is open to those achieving a sufficient standard in their Postgraduate Diploma exams. The second year combines first semester taught courses with project work in the second semester, and generally has a greater research orientation. The second semester project can be of a musical or technological nature.

Acceptance for the course is based on an overall assessment, which takes into account:

- Undergraduate degree qualification. (Consideration will be given to mature students (over 23 by 1 January of the year of entry) who do not have an undergraduate qualification but who clearly demonstrate relevant experience over a number of years in a related industry or field.)

- Musical/compositional/artistic and/or technological ability as evidenced by a portfolio submission.

- Formal musical knowledge level (an entrance test primarily assessing aural and notational abilities is scheduled for some applicants).

- References.

- Interview.

Both programmes cover a wide range of subjects within the general field of music technology, and provide students with a fully professional qualification. The work is intensive and these programmes cannot be undertaken part-time.

## HIGHER DIPLOMAS

### HIGHER DIPLOMA IN EDUCATION (H.Dip.Ed.)

COURSE CODE 120

*Course Coordinator:* Dr Michael Shevlin

*Duration:* One year, full-time

*Closing Date:* 14 December of the previous year to which admission is sought. Applications should be addressed directly to the Higher Diploma in Education Programme, Department of Education, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1488

*Email:* [efleeton@tcd.ie](mailto:efleeton@tcd.ie)

*Internet:* [www.tcd.ie/Education/HigherDiplomainEducation.htm](http://www.tcd.ie/Education/HigherDiplomainEducation.htm)

The purpose of this course is to prepare candidates for teaching in second-level education. The course is in two integral parts, initial and general, and is full-time. Throughout the school year students are required to undertake teaching practice under supervision while pursuing their academic studies at the University. In exceptional circumstances a student may be allowed to carry over teaching practice or a limited number of courses into a second year, on payment of the appropriate College fee.

Courses in Foundation Studies are: philosophy of education; educational psychology; special education; sociology of education; history of education and issues in Irish education; curriculum, assessment, evaluation and statistics.

Courses in Teaching Studies are: pedagogy of individual disciplines in two school subjects (major and minor). Students are evaluated by course work assessment throughout the year, by written examinations and by assessment of teaching practice.

By arrangement with the school authorities concerned, candidate teachers undertake practice in Dublin

schools. In accordance with the requirements of the University and the Secondary Teachers' Registration Council with regard to teaching practice, students should be present in school throughout the entire school year, as defined by the Department of Education and Science circular IML/M26/64, and should obtain not less than the equivalent of 75 full days of school experience.

Candidates should note that, in accordance with the requirements of the Secondary Teachers' Registration Council, a minimum of two-thirds attendance at all components of the course is mandatory.

### **HIGHER DIPLOMA IN EDUCATION (PRIMARY TEACHING)**

COURSE CODE 601

*Course Coordinator:*  
Dr Damian Murchan

*Duration:* 18 months, full-time

*Closing Date:* These courses are contingent on approval from the Department of Education and Science on an annual basis. Please contact the Colleges of Education for further information. Application for admission must be made directly to the College of Education in which enrolment is being sought.

*Telephone:* +353-1-608 1237

*Email:* [murchand@tcd.ie](mailto:murchand@tcd.ie)

*Internet:* [www.tcd.ie/Education/HigherDiplomainEducationPrimary.htm](http://www.tcd.ie/Education/HigherDiplomainEducationPrimary.htm)

The Higher Diploma in Education (Primary Teaching) is a professional course that is intended to provide for the academic and professional requirements of primary school teachers. It is taught jointly by the School of Education and two associated Colleges of Education – Coláiste Mhuire, Marino and the Froebel College of Education, Sion Hill, Blackrock. Students attend the majority of courses within their chosen College of Education and attend foundation courses, in common with students from other Colleges of Education, within the University's Education area.

Throughout the degree considerable emphasis is placed on the study of foundation subjects in education, the Irish and English languages, language development and mathematics, with complementary work in areas such as arts education, religious studies, physical education, social, personal and health education (SPHE), information communication technology (ICT), social, environmental and scientific education (SESE), and inclusive education. School experience is regarded as central to the H.Dip. (Primary) programme and there are three periods of teaching practice designed to give students an

opportunity to develop their practical skills of observation and teaching. The evaluation of work for the degree involves a combination of continuous assessment and final examinations.

Graduates of this course are recognised by the Department of Education and Science as qualified teachers, following a successful year of probation, in accordance with Rule 157 of the Rules of National Schools.

The course is of eighteen months duration and is full-time. It commences in early February and is divided into three terms, which run from February to June, September to December, and from January to June. H.Dip. (Primary) students register only with the Associated College of their choice for the first term of the course. Students register both with the Associated College and Trinity College for the second and third terms of the course. Graduate students registered with Trinity College have full access to the facilities of the University.

Candidates for admission to the programme leading to the H.Dip. (Primary) must possess an approved third-level degree. In addition, applicants must also have secured at least grade C in Higher Level Irish and at least grade D in Mathematics (Ordinary or Higher level) and at least grade C (Ordinary level) or grade D



(Higher level) in English. Candidates who sat the Leaving Certificate examination prior to 1969 must have secured honors in Irish and passes in English and Mathematics. Similar requirements apply in the case of applicants who have sat the Northern Ireland GCSE and GCE A Level examination.

Further information and application forms for admission are available from Coláiste Mhuire, Marino and the Froebel College of Education, Sion Hill, Blackrock. Applicants who satisfy the academic requirements are invited to attend an interview and an oral Irish examination.

## **HIGHER DIPLOMA IN PSYCHOLOGY**

COURSE CODE 720

*Course Director:* Dr Jean Quigley

*Duration:* Two years, full-time

*Closing Date:* 30 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2697

*Address:* Psychology Department, Room 1.21 Aras an Phiarsaigh, Trinity College, Dublin 2.

*Email:* quigleyj@tcd.ie

*Internet:* www.tcd.ie/Psychology

The purpose of the course is to provide a pre-professional qualification in psychology, which confers eligibility for graduate membership of the Psychological Society of Ireland (PSI) and allows a student to proceed to postgraduate training, including higher degrees by research, and to specialise in an area of professional psychology. It is a two year full-time course based on lectures, tutorials, laboratory classes and research projects.

Candidates for admission to the Higher Diploma in Psychology must hold a primary degree with at least second-class honors. Application for entry is not via the CAO system.

Students will cover the following areas of psychology, as required for professional accreditation:

- Biological basis of behaviour
- Cognitive psychology
- Research design, quantitative and qualitative methods
- Developmental and lifespan psychology
- Social psychology
- Personality and individual differences

Students are evaluated by course work assessment throughout the year, by written examination papers at the end of each year of the course, and by research project in the second year. The student must complete all the work prescribed.







# Arts (Letters)

## Arts (Letters)

Arts (Letters), is the focus for research into language and languages, literature both ancient and modern, translation studies, classical archaeology, drama and theatre studies, and film.

The Centre for Language and Communications Studies specialises in theoretical and applied linguistics, and has a flourishing area of research in phonetics, sustained by a well-equipped phonetics laboratory.

Classics has a long tradition of research in the literatures and history of ancient Greece and Rome, in papyrology, in the archaeology of the Aegean and the Roman empire, and philosophy. Recently a Centre for the Study of the Platonic Tradition has been established. The Centre is involved with the Religions and Theology programme in Medieval and Near-Eastern Studies.

English offers opportunities for research in medieval, renaissance, and modern literature, including American and Caribbean literatures. A particular feature of this area is the commitment to graduate work in Anglo-Irish literature, partly through research and partly through a taught M.Phil. Recent developments include M.Phil courses in creative writing, Anglo-Irish literature and popular literature.

Irish and Celtic Languages has both a Postgraduate Diploma in Old Irish and an M.Phil. in Early Irish as well as well-established research fields in language and literature, old, medieval and modern.

The modern language disciplines of French, Germanic Studies, Italian, Russian and Hispanic Studies all offer specialist supervision in a wide range of areas. Two offer taught postgraduate courses: French offers an M.Phil. in Textual and Visual Studies concentrating on 19th and 20th century France; German offers a course in German Literature and Language Pedagogy.

The Samuel Beckett Centre is the focus for research in drama and theatre studies. The M.Phil. in Irish Film and Theatre Studies is located there.

An M.Phil. in Medieval Language, Literature and Culture draws on the medieval expertise of English, French, Germanic, Irish and Italian Studies.

The research community of Arts (Letters) comprises approximately 77 full-time academic staff, 180 postgraduate students writing theses, and 90 engaged in taught courses. The postgraduate body is a very international one. Students are generally registered within

specific areas, but interdisciplinary work is encouraged and some general courses are given, such as critical and cultural theory, Medieval Latin, classical Latin and Greek, and the history of the book. Some areas have connections with the other institutions in the city which enable the research base to be broadened: Drama Studies has a well-established relationship with the Abbey Theatre, and both Drama Studies and English have connections with the Irish Film Centre. A number of areas profit from relationships with universities outside Ireland. For part of the M.Phil. course in Textual and Visual Studies students attend courses at Université de Paris VII and X. English and Irish (along with History) are involved with the Universities of Aberdeen and Strathclyde in the Irish Scottish Academic Initiative, which promotes collaborative research over a broad cultural range. In courses involving literature and drama it is quite normal for practitioners to contribute on an informal and occasional basis. Each year, more formally, English, in conjunction with the Arts Council of Ireland, appoints a writer fellow who contributes classes to its postgraduate courses.

**CLASSICS***Academic Staff Contact:*

Professor Damien Nelis

*Telephone:* +353-1-608 1208*Fax:* +353-1-671 0862*Academic staff numbers:* 8 full-time*Postgraduate numbers:* 35 research*Internet:* [www.tcd.ie/Classics/](http://www.tcd.ie/Classics/)

Normally an upper second-class (or international equivalent) primary degree is the minimum condition for postgraduate registration in Classics. All research students are examined by thesis only. No taught courses are offered, but completion of certain components in the undergraduate programme may be required as a condition of registration.

The minimum requirement for research into a literary or historical topic is a pass in the beginners' course in either Greek or Latin, and subsequently a pass at upper second level in an examination on an author or texts relevant to the candidate's research. The minimum requirement for research into a topic in classical archaeology is a pass in the beginners' course in either Greek or Latin. Candidates undertaking research in a prehistoric or non-classical area of archaeology are not required to study Greek or Latin, but instead they may be required to gain proficiency in a modern language or relevant technical skill.

All postgraduate students are required to attend seminars and research meetings. A postgraduate work-in-progress seminar meets regularly throughout the academic year, and research students are encouraged to present papers. In addition it is strongly recommended that research students expose themselves to as wide a range of intellectual stimulation as possible by attending the meetings of the Dublin Classics Seminar (held fortnightly during term), and any other extra-mural lectures or seminars as advised by their supervisors. They are also urged to join the Classical Society and attend its guest lectures.

The most recent research initiative in recent years has been the establishment of the Joint Committee for Mediterranean and Near Eastern Studies, following the award of a Government research grant made in 1999 for this purpose. The Joint Committee brings together expertise from Classics and Religions and Theology, with the purpose of investigating various aspects of the encounter between the Greek, Roman and Near Eastern worlds. A number of postgraduate scholars and two post-doctoral fellows have been appointed to work in specific projects. A regular seminar takes place every two weeks during the academic year, and international workshops have been planned.

In the field of Augustan Latin poetry the staff are involved in a research network, which includes the Universities of Florence, Heidelberg, Lille III, London, Oxford and Udine. In addition, Classics has exchange programmes, under the auspices of the European Erasmus/Socrates programme, with the University of Fribourg (Switzerland) and the University of Bordeaux III.

Classics has special expertise in the following areas: Greek Bronze Age; Cypriot archaeology; Greek epic; Greek tragedy, especially Euripides; Greek History; Historiography; Hellenistic poetry; Plutarch; the 'Goddess' in Greek religion; Hellenistic history; Jewish history; the eastern provinces of the Roman empire; Latin poetry, especially Virgil, Lucretius and Propertius; Roman construction; the city of Rome; Greek philosophy, especially Platonism and Neoplatonism; Greek epigraphy; and papyrology. Supervision is also available outside these areas.

Research students are entitled to apply for financial assistance in acquiring material on Inter-Library Loan (guidance available from supervisors). Applications may also be made for funds towards attendance at seminars and colloquia overseas.



## DRAMA

*Academic Staff Contact:*

Professor Brian Singleton

*Telephone:* +353-1-608 1239/2266

*Fax:* +353-1-679 3488

*Academic staff numbers:* 12 full-time

*Postgraduate numbers:* 25 research,  
12 taught

*Internet:* [www.tcd.ie/Drama/](http://www.tcd.ie/Drama/)

Trinity College's Drama programme is internationally recognised for the quality and rigour of its study and training. It offers a full range of academic and performance work in theatre, and academic work in film and performance studies. There are over 200 students working in the area from all over the world in BA programmes and in a unique actor training course run in collaboration with the Abbey Theatre.



Well-known artists and scholars regularly visit for workshops and lectures. At the postgraduate level it is possible to study here in two different ways: in a taught M.Phil. course in Irish Theatre and Film Studies, and by research degrees.

In addition to their research work, research students meet regularly in seminars to discuss common theoretical and methodological concerns and to read and critique each other's work under the guidance of senior academics. They also attend advanced courses in critical and cultural theory. The Trinity Library, which has been a UK copyright depository since 1801, is a great resource and is supplemented by a number of local libraries for printed and manuscript collections. The Irish Film Institute, open to Drama students, holds a large number of Irish films. Many research students are hired as graduate teaching assistants to lead undergraduate seminars and to teach both practical and academic courses.

Drama is particularly strong in the following areas: intercultural, colonial, post-colonial, and national theatre and performance; Irish drama and theatre of the 19th and 20th centuries; Women in theatre and performance; Shakespeare on stage and on film; 19th and 20th century British theatre history; French theatre; contemporary theatre

and performance theory; digital culture, new media, information arts and performance; Irish film and film censorship; film theory; early cinema; and American television.

Admission to research degrees is based upon an applicant's record, research proposal, and letters of recommendation. In addition to the details required on the application form, a detailed two-page research proposal and a sample of academic writing of approximately 20 pages is required. Please note that for those seeking financial awards, the deadline for applications for research degrees is 15 March of each year.

## ENGLISH STUDIES

*Academic Staff Contact:*

Dr Stephen Matterson

*Telephone:* +353-1-608 1111

*Fax:* +353-1-671 7114

*Academic staff numbers:*

19 full-time, 3 part-time

*Postgraduate numbers:*

60 research, 32 taught

*Internet:* [www.tcd.ie/English/](http://www.tcd.ie/English/)

English Literature has been taught in Trinity since the 1850s and the Chair of English was founded in 1867. Research in English has flourished since the time of the Victorian Shakespeare scholar Edward Dowden. Trinity Library has a

famous collection of early manuscripts, the largest research collection of printed books in Ireland going back to the College's foundation in 1592 (as a copyright library since 1801, it contains very large quantities of books of interest to students of English) and important collections of modern Anglo-Irish material.

As well as offering three taught M.Phil. courses, in Anglo-Irish Literature, Popular Literature, and in Creative Writing respectively, there's also great activity in a number of areas of research. These include medieval and renaissance studies, 18th and 19th century studies, literary theory, and modern literary studies, especially Anglo-Irish, American and postcolonial literatures. Postgraduate students are introduced to Trinity's resources and to the techniques of research by a special course on 'Research Methods'. There is also a research seminar series at which students and visiting lecturers present papers.

Applicants for degrees by research should provide, as well as the standard application, a brief two-page research proposal. All postgraduate applications are considered in the month of March and should be submitted by 1 March 2005.

## FRENCH STUDIES

*Academic Staff Contact:*

Professor Johnnie Gratton

*Telephone:* +353-1-608 1553

*Fax:* +353-1-671 7118

*Postgraduate Coordinator:*

Professor David Scott

*Academic staff numbers:*

12 full-time, 3 language assistants

*Postgraduate numbers:*

15 research, 8 taught

*Internet:* [www.tcd.ie/French/](http://www.tcd.ie/French/)

A thriving postgraduate school exists within French Studies. In addition to the taught Masters course (M.Phil.) in Textual and Visual Studies, there are a number of full-time postgraduate students pursuing M.Litt. or Ph.D. theses by research. Currently the main areas of research activity are 19th and 20th century studies; francophone studies; French sociolinguistics; the acquisition and teaching of French as a second or foreign language; and textual and visual studies. There is an opportunity to pursue research on medieval and Renaissance French in the Centre for Medieval and Renaissance Studies. Throughout the academic year there are fortnightly staff and postgraduate research seminars, and where possible, students pursuing doctoral research are involved in teaching at undergraduate level.

## GERMANIC STUDIES

*Academic Staff Contact:*

Professor Moray McGowan

*Telephone:* +353-1-608 1373

*Fax:* +353-1-608 3762

*Academic staff numbers:*

7 full-time, 3 Lektors

*Postgraduate numbers:* 10-15 research, 3-6 taught

*Email:* [moray.mcgowan@tcd.ie](mailto:moray.mcgowan@tcd.ie)

*Internet:* [www.tcd.ie/Germanic\\_Studies/](http://www.tcd.ie/Germanic_Studies/)

The Chair of German (1776) is the oldest in the world, and this is reflected in its international reputation in research. All academic staff are strongly active in research, and our present expertise covers most periods of German literature, culture and history of ideas from the earliest times to the contemporary, with particular strengths in medieval studies and in literature and culture since the Enlightenment: especially Romanticism, the Viennese fin-de-siècle, modernism and contemporary German literature, especially drama and theatre; in discourse studies, semiotics, cultural and literary theory; in intercultural business communication; and in historical, theoretical and applied linguistics.

Trinity College houses Ireland's principal research library, and the historical collections have many strengths in

Germanic Studies from the medieval period onwards. A targeted acquisitions policy, together with frequent donations, ensures excellent collections in its priority research areas. Currently, substantial funding has been received to develop a major research collection in modern and contemporary German studies, especially German theatre and drama. The interdisciplinary approach of current research is also supported by German material in a range of other disciplines, and there are good contacts with staff and students engaged in cognate research in other European languages, in English Studies, History, the Social Sciences, the Centre for Jewish Studies and the Samuel Beckett Centre.

Germanic Studies can offer M.Litt. and Ph.D. supervision in fields such as: literature, including contemporary drama and theatre; cultural studies; history of ideas; historical, theoretical and applied linguistics. It welcomes interdisciplinary and other unusual research proposals. The postgraduate research community is one of the largest in these islands and has an excellent success record in the award of research scholarships and in securing subsequent academic posts. Suitably qualified postgraduate students can gain teaching experience and additional finance is available for research and conference travel. Some library provision is earmarked to support postgraduates'

research needs. The regular research colloquium offers students the opportunity to test their ideas with their peers and engage in critical debate with staff and with numerous visiting speakers from the international German Studies research community. The staff are also in close contact with researchers and research networks in their different fields at a wide range of Irish, British, German and Austrian universities.

A taught M.Phil. programme in German is also offered, for which a separate brochure is available. Enquiries about postgraduate study are welcome and should be made to Professor Moray McGowan (contact details listed above).

## HISPANIC STUDIES

*Academic Staff Contact:*

Dr Ciaran Cosgrove

*Telephone:* +353-1-608 1257/1981

*Fax:* +353-1-671 0649

*Academic staff numbers:* 5 full-time, Spanish language assistant, 3 part-time

*Postgraduate numbers:* 6 research

*Internet:* [www.tcd.ie/Spanish\\_and\\_Portuguese/index.html](http://www.tcd.ie/Spanish_and_Portuguese/index.html)

Hispanic Studies has a long-established international reputation for outstanding research, and can offer expert supervision in many areas of Peninsular and Spanish-American literature and linguistics. It welcomes in particular students who wish to undertake



research in the following fields: Hispanic linguistics, historical and contemporary, encompassing the Peninsula and the New World; the teaching and learning of Spanish in conjunction with French, and of Portuguese in conjunction with Spanish; Spanish literature 1250-1500; Golden-Age drama, especially Lope de Vega; 19th century Spanish fiction, especially Galdós and Valera; Spanish intellectual life 1868 – 1939, especially the writings of Antonio Machado and Manuel Azaña; contemporary Spanish history and politics, especially the writings of Vázquez Montalbán; contemporary Spanish drama, especially the plays of Buero Vallejo; modern Spanish-American fiction, especially the Argentine novel; literary theory and its application to modernist and postmodernist fiction. It may also be possible to provide supervision outside these areas for suitable applicants.

### **IRISH AND CELTIC LANGUAGES**

*Academic Staff Contact:*

Professor Damian McManus

*Telephone:* +353-1-608 1105

*Fax:* +353-1-608 3127

*Academic staff numbers:*

4 full-time, 7 part-time

*Postgraduate numbers:* 7 research

*Internet:* [www.tcd.ie/Irish](http://www.tcd.ie/Irish)

Irish and Celtic Languages offers research supervision in a wide area of study reaching from the early Celtic era down to the language and literature of the present day. Teaching and research interests of the staff include Indo-European linguistics; Celtic linguistics; Primitive Irish; Old, Middle and Early Modern and Modern Irish language, linguistics and literature; Ogham; Metrics; Bardic verse; Scottish Gaelic literature; and Irish folk literature.

Trinity Library houses a vast collection of printed material and an extremely important collection of Irish manuscripts, while the area has a small library holding of research materials, including a copy on microfilm of the Folklore Institute's main collection. Two other major libraries in the vicinity of Trinity College are the National Library and the Library of the Royal Irish Academy, both having significant collections of both printed and manuscript material.

Candidates for both of the research-based degrees, M.Litt. and Ph.D., are accepted every year (subject to staff availability), while a taught Postgraduate Diploma in Old Irish and a taught M.Phil. in Early Irish are run in alternate years (M.Phil. in 2005/06 and Diploma in 2006/07).

### **ITALIAN**

*Academic Staff Contact:*

Dr Roberto Bertoni

*Telephone:* +353-1-608 2062

*Academic staff numbers:*

3 full-time, 1 emeritus, 1 full-time language assistant, 1 full-time Italian Government sponsored lecturer

*Postgraduate numbers:* 5 research

*Internet:* [www.tcd.ie/Italian/](http://www.tcd.ie/Italian/)

The research interests of Italian studies are mostly literary, and are concentrated in the late Middle Ages and Renaissance, in the 19th century and 20th centuries. Supervision can be offered for research topics including the fields of medieval and Renaissance literature, contemporary poetry, 20th century novelists, translation studies, and certain aspects of comparative literature.

### **CENTRE FOR LANGUAGE AND COMMUNICATION STUDIES**

*Academic Staff Contact:*

Professor David Little

*Telephone:* +353-1-608 1560

*Fax:* +353-1-608 2941

*Academic staff numbers:*

9 full-time, 1 full-time research

*Postgraduate numbers:*

23 research, 29 taught

*Internet:* [www.tcd.ie/CLCS/](http://www.tcd.ie/CLCS/)

The Centre for Language and Communication Studies has an international reputation for research in applied linguistics, linguistics, phonetics and speech science. Appropriately qualified graduates are admitted to pursue individual research leading to the M.Litt. or Ph.D. degree in each of these areas. Members of staff have the following specific interests:

- Applied linguistics – second language acquisition; language transfer; the age factor in language acquisition; the lexicon; metacognition and metalinguistic awareness in second language learning; learning strategies; autonomy in language learning; applications of new technologies to language learning; psycholinguistics and language media; computer-mediated communication; and development of virtual environments for language learning.
- Linguistics – grammatical theory; linguistic universals; information structure; Cushitic linguistics; sociolinguistics; the English language in Ireland; linguistic theory and language variation; bilingualism; discourse analysis; and language acquisition.
- Phonetics and speech science – experimental investigation of linguistic contrasts, and implications

for models of speech production and perception; acoustic and articulatory analysis of co-articulation and connected speech processes, with a particular focus on Irish; the analysis of voice quality; the human voice source and its dynamic variation; text-to-speech synthesis; and acoustic theory of speech production and its implementation in a speech analysis system.

The Centre also offers M.Phil. courses in Linguistics, Applied Linguistics, and Speech and Language Processing.

## RUSSIAN

*Academic Staff Contact:* Dr Sarah Smyth

*Telephone:* +353-1-608 1819

*Fax:* +353-1-608 2655

*Academic staff numbers:*

5 full-time; 1 language assistant (Russian); 1 language assistant (Polish); 1 part-time teaching assistant.

*Postgraduate numbers:* 2 research

*Internet:* [www.tcd.ie/Russian/](http://www.tcd.ie/Russian/)

Teaching and research interests of the staff include Russian lexicology, the Russian press, comparative Slavonic linguistics; 19th century Russian literature (Dostoevsky, the development of narrative voice in prose fiction); 20th century Russian literature and culture (poetry of the 'Silver Age' and avant-garde movements, literature of the

Russian emigration); literary theory and criticism; Czech literature and culture; curriculum and syllabus design for Russian language programmes.

Candidates are welcome to apply for M.Litt./Ph.D. supervision for research in any of the above areas.

Research topics currently being pursued include two projects in modern Russian literature, while recently completed theses have been in the areas of modern Czech and Polish literature.

Russian actively promotes research seminars for students and staff, teaching opportunities for postgraduate students, membership of the Irish Association for Russian and East European Studies (IAREES), and opportunities for study and research in Russia and Central/East Europe.





## M.Phil. COURSES

### ANGLO IRISH LITERATURE (M.Phil.)

COURSE CODE 180

*Course Directors:*

Professor Terence Brown  
and Professor Nicholas Grene

*Duration:* One year, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1400/1179

*Email:* [tbrown@tcd.ie](mailto:tbrown@tcd.ie), [ngrene@tcd.ie](mailto:ngrene@tcd.ie)

*Internet:* [www.tcd.ie/OWC/courses/anglo/index.html](http://www.tcd.ie/OWC/courses/anglo/index.html)

The course offers graduates in English or in related disciplines (e.g. history, art history, Irish Studies, a modern language) the opportunity to study the broad range of authors of Anglo-Irish literature from the 18th century to the present. It also addresses thematic aspects of the subject. The course is designed to be complete in itself but can also serve as preparation for those who may wish to proceed to further research in the field.

Applicants should have a good honors degree (at least an upper second or equivalent, GPA of at least 3.3). Some previous knowledge of Anglo-Irish

literature is also desirable. Admission to the course is competitive due to a restricted quota.

The course consists of five elements:

- i) The main authors of Anglo-Irish literature – Swift, Edgeworth, Yeats, Joyce, Beckett are studied in two weekly two-hour seminars in the Michaelmas and Hilary terms.
- ii) There are a series of lectures on the contexts of Anglo-Irish literature in the Michaelmas term.
- iii) There is a course in Research Methods in the Michaelmas and Hilary term.
- iv) A number of special subjects are offered in Michaelmas and Hilary terms. These special subjects may vary from year to year according to staff availability. They have included in the past: Literature and Violence; Literary Myths of the Revival; Irish Drama and the Metropolitan Theatre; Modernism and Irish Poetry; Gothic and Fantasy Literature; Irish Fiction after Joyce; Irish Women's Writing; Cinema and Ireland. Students are required to select a special subject in Michaelmas term. In place of one of the special subjects offered in Hilary Term, students may enrol for a Creative Writing workshop which meets in Hilary term. Entry to this
- v) A dissertation (12-15,000 words) is planned in consultation with a Course Director in Hilary term and is prepared and written under the guidance of a supervisor in the Trinity term and in the long vacation (July to September).

part of the course is based on assessment of a portfolio of the student's writing, which must be submitted before the end of the Michaelmas term.

Assessment is a combination of course papers, presented work and dissertation.

Further information on the course is provided for incoming students in the course handbook and on the website of the Oscar Wilde Centre for Irish Writing.

### CREATIVE WRITING (M.Phil.)

COURSE CODE 255

*Course Directors:* Professor Brendan Kennelly and Mr Gerald Dawe

*Duration:* One year, full-time

*Closing Date:* 01 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2885

*Email:* [oscar@tcd.ie](mailto:oscar@tcd.ie)

*Internet:* [www.tcd.ie/OWC/courses/creative/index.html](http://www.tcd.ie/OWC/courses/creative/index.html)

This course, the first Masters programme in creative writing in an Irish university, was offered for the first time in 1997/98. It is based in the Oscar Wilde Centre for Irish Writing, 21 Westland Row, the birthplace of Oscar Wilde.

The course is intended for students who are seriously committed to writing, are practising, or prospective authors and who wish to develop their writing within the framework of a university course and in the context of an Irish literary milieu. It involves the close and critical examination of the students' work in group workshops and under guided personal tuition, with the study also of the professional techniques of book editing and publishing, and the opportunity to explore the cultural and literary contexts of writing in Ireland.

Applicants, who are expected to have a university degree or equivalent qualification, are selected on the basis of a submitted portfolio of recent creative work.

Students are required to take workshops, attend courses of lectures, and take one special subject or specialist writing workshop, while continuing to develop their own individual work throughout the year.

### **EARLY IRISH (M.Phil.)**

COURSE CODE 628

*Course Coordinator:*  
Professor Damian McManus

*Duration:* One year, full-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1105

*Email:* pmcmanus@tcd.ie

*Internet:* [www.tcd.ie/Irish/irww318.htm](http://www.tcd.ie/Irish/irww318.htm)

The M.Phil. course builds on the material presented in the Postgraduate Diploma in Old Irish. Applicants will therefore normally have successfully completed the latter course, though persons with equivalent competence in Old Irish but who have not successfully completed the diploma are also eligible to apply. All candidates undertake core courses in Old Irish prose and Old Irish Poetry. They must also choose an optional course from comparative linguistics, early Irish law or Middle Irish. In addition students attend and must present a paper in the postgraduate seminar series and attend a series of guest lectures. Finally all candidates undertake a dissertation of 20,000 words.

### **FILM THEORY AND HISTORY (M.Phil.)**

COURSE CODE 721

Next intake in October 2006

*Course Director:* Dr Paula Quigley

*Duration:* One year, full-time

*Closing Date:* 31 March 2006.

Applications should be made directly to the Graduate Studies Office, Arts Building, Trinity College Dublin, by 31 March 2006, the first year of admission to the course.

*Telephone:* +353-1-608 3512

*Email:* pquigley@tcd.ie

*Internet:* [www.tcd.ie/Drama/](http://www.tcd.ie/Drama/)

The course is designed to equip students with a wide-ranging knowledge of film theory and history. It is a one year full-time course based on lectures, seminars and screenings. Candidates for admission to the M.Phil. in Film Theory and History should have a good honors degree of upper second class or above, or an equivalent qualification, in a cognate area.

The course consists of two core courses, two option courses and a dissertation. In addition to lectures/seminars, students are required to attend one two-hour screening per course each week for each of Michaelmas and Hilary terms. The courses are:

- Research methodologies core course (Michaelmas and Hilary terms): facilitated discussion sessions designed to explore current theoretical approaches to the study of film, to encourage students to share research, and to develop oral presentation skills.
- Film theory and history core course (Michaelmas and Hilary terms): theories of visual culture/theorising film history and historical research and archiving methods.
- Option courses (students to take one option in Michaelmas and one option in Hilary term): Available options will be confirmed at the beginning of each academic year.
- A dissertation of 20,000 words on an approved aspect of the course will be supervised by an appropriate member of staff.

Students are evaluated by course work assessment and a dissertation.



### **GERMAN LITERATURE WITH LANGUAGE PEDAGOGY (M.Phil.)**

COURSE CODE 248

*Course Coordinator:* Dr Gilbert Carr

*Duration:* One year, full-time; two years, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1935/1373

*Email:* gcarr@tcd.ie

*Internet:* [www.tcd.ie/Germanic\\_Studies/postgraduate/taught/mphil.htm](http://www.tcd.ie/Germanic_Studies/postgraduate/taught/mphil.htm)

Literatur – Kultur – Sprache, a one-year taught M.Phil. programme, is specifically designed as a preparation for graduates aiming at a career in third-level teaching, though it is also taken by other advanced students interested in deepening their understanding of modern German culture and its intellectual contexts (current courses range from Erzählungen vom Unbewußten in Aufklärung und Romantik through Kunst nach Auschwitz to Zeitgenössisches deutsches Drama). The course trains students in literary critical methodology, through courses in Critical and Cultural Theory and Praktikum Textarbeit. It also provides an introduction to language pedagogy: the course Didaktik Deutsch

als Fremdsprache studies theories of language acquisition and their practical application, including that of intercultural contexts. The 25,000 word dissertation, usually on a literary, cultural or related topic, is an opportunity to explore a chosen topic in depth and a preparation for research.

### **IRISH THEATRE AND FILM STUDIES (M.Phil.)**

COURSE CODE 247

*Course Coordinator:*

Dr Anna McMullan

*Duration:* One year, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2407

*Email:* amcmulln@tcd.ie

*Internet:* [www.tcd.ie/Drama/content/02\\_courses.html](http://www.tcd.ie/Drama/content/02_courses.html)

The course concentrates on Irish theatre and film and culminates in a dissertation of 15,000 words. The work normally takes 12 months, although students are required to be in residence only from October through the following June. Visits from Irish practitioners and scholars supplement the regular lectures and seminars in Irish drama and film, performance issues, and critical and cultural studies.

## **LINGUISTICS/APPLIED LINGUISTICS/SPEECH AND LANGUAGE PROCESSING (M.Phil.)**

COURSE CODE 182/181/268

*Course Coordinator:*  
Professor David Little

*Duration:* One year full-time;  
two years part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1560

*Email:* [clcsinfo@tcd.ie](mailto:clcsinfo@tcd.ie)

*Internet:* [www.tcd.ie/CLCS/courses/ mphl.html](http://www.tcd.ie/CLCS/courses/mphl.html)

These courses have some elements in common. Their aims are: to introduce students to techniques of linguistic description and central concepts in theoretical/applied linguistics/speech science and language processing; to proceed from this basis to more advanced study of central topics in theoretical/applied linguistics/speech science and language processing; via the dissertation component to introduce students to research in theoretical/applied linguistics/speech science and language processing.

Besides following a prescribed programme of study, which is assessed on the basis of six assignments, students write a dissertation of 20,000 words. Normally only graduates with language teaching experience are admitted to the course in Applied Linguistics.

## **LITERARY TRANSLATION (M.Phil.)**

COURSE CODE 715

*Course Director:* Mr David Parris

*Duration:* One year, full-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1979

*Email:* [dparris@tcd.ie](mailto:dparris@tcd.ie)

*Internet:* [www.tcd.ie/Arts\\_Letters/ translation/](http://www.tcd.ie/Arts_Letters/translation/)

There is a widespread interest in literary translation as a form of literary study, and as a discipline that extends the reading and writing skills gained in an Arts degree. Trinity College builds on its large and successful language teaching experience in creating a programme specifically designed for the production and study of literary translations.

The aim of the course is to bring together in an interdisciplinary framework, the expertise to create

a unique programme for practitioners, future practitioners and students of the art of translation. The target language is English, but the following source languages are also available: French, Italian, Spanish, German, Russian, Czech, Latin and Greek. The programme is taught by experienced lecturers, and guest translators, and features a seminar in which students present and discuss their own work.

A graduate of the course will be well equipped to work as a literary translator and to undertake cultural, academic or philosophical as well as literary translation, for employment in any area demanding intercultural awareness, and excellent writing and analytical skills. The aim is to teach translation as an art, and to form professionals who will have learned to work in an ethos of mutual intellectual and linguistic exchange.

The M.Phil. combines a core course, which addresses theoretical, linguistic and practical issues common to all, or most translation situations, with specialised options which are specific to countries and periods.

**MEDIEVAL LANGUAGE,  
LITERATURE AND CULTURE  
(M.Phil.)**

COURSE CODE 671

*Course Director:* Dr Tim Jackson*Duration:* One year, full-time*Closing date:* 30 June 2005. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.*Telephone:* +353-1-608 1501*E-mail:* tjackson@tcd.ie*Internet:*

www.tcd.ie/Medieval\_Renaissance/

This interdisciplinary course is designed for well-qualified graduates who wish to extend their interest in medieval studies. The flexible structure of the course allows students to construct their degree around their particular areas of interest, while acquiring both the technical expertise to investigate primary medieval documents and an insight into the complexities of medieval culture generally. Students will have the opportunity to be taught not only by Trinity staff but also by visiting lecturers from other internationally renowned institutions.

In the Michaelmas term, students take three core courses, one of which, Research Methodology, is obligatory. Students may choose their two other

core courses from the following:

Medieval Thought, Medieval Culture and Society, a language (Medieval Latin; elementary Classical Latin; Italian; Old English; Middle English; Medieval German; Medieval French; Old Irish).

In the Hilary and Trinity terms, students follow two options chosen from the following (subject to availability): Sir Gawain and the Green Knight; Chaucer: Troilus and Criseyde; 15th Century Allegories of Love; Medieval Outlaws; Women in Medieval Drama; Language and Genre; Varieties of Comedy: Dante, Boccaccio et alia; Old Irish Poetry; Comparative Linguistics from the Celtic Point of View; Early Irish Law; Middle Irish; Introduction to Early Medieval Ireland; Music in European Monasteries, Cathedrals and Courts; Music and Liturgy of the Medieval Irish Church; Old English Prose; Epic into Romance; Arthurian Heroes; Malory's Morte d'Arthur; Medieval Philosophy; Medieval Perceptions of Islam; Late Medieval French Poetry; the Old French 'récit bref'.

The course concludes with a 20,000-word dissertation to be submitted by 30 September 2006.

Students are encouraged to supplement their studies by attending the Seminar Programme organised by the Centre for Medieval and Renaissance Studies.

**POPULAR LITERATURE (M.Phil.)**

COURSE CODE 709

*Course Directors:*

Dr Nicholas Daly and Dr Darryl Jones

*Duration:* One year, full-time*Closing Date:* 29 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1878

*Email:* npday@tcd.ie and  
drjones@tcd.ie

*Internet:* www.tcd.ie/English

This course offers an opportunity for the advanced study of popular literature. In recent years a body of theoretical and cultural historical material has developed that attempts to define what 'the popular' means now, and what it has meant historically. At the same time texts that do not seem to belong to traditional canons increasingly attract critical attention, and have come to be taught at university level alongside more canonical texts. In this light the course will cover such popular genres as adventure fiction, children's literature, horror, detective fiction, romance and science fiction, as well as offering an advanced introduction to such topics as the bestseller, genre theory, print culture and readership.



Applicants are normally expected to have a good honors degree (at least of upper second standard) or an equivalent qualification.

The course comprises three elements:

- i) A core course meeting twice a week for 2 hours over 2 terms;
- ii) Option courses meeting once a week for 2 hours – students take one per term;
- iii) The research methods course.

This creates a total of 7 contact hours per week. Students also spend a substantial amount of time in library research. Assessment is a combination of four 5,000 word essays and a 15,000 word dissertation to be supervised by a member of staff.

### **TEXTUAL AND VISUAL STUDIES: 19th AND 20th CENTURY FRANCE (M.Phil.)**

COURSE CODE 185

*Course Coordinator:*  
Professor David Scott

*Duration:* One year, full-time

*Closing Date:* 31 March 2005.  
Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1374

*Email:* dscott@tcd.ie

*Internet:* [www.tcd.ie/French/pages/mphil.php](http://www.tcd.ie/French/pages/mphil.php)

Designed for well-qualified Arts graduates (or those who have attained an equivalent level in European or other institutions) who have a good working knowledge of both French and English, this course is an introduction to the study of the relationship between the textual and visual in literature, the arts and other areas.

The course includes an introduction to historical bibliography and book production (setting type by hand and printing). Its focus is 19th and 20th century France, but set in a wider perspective. The course, run in Trinity College and Universités Paris 7, and Paris X, is also associated with Vrije Universiteit Amsterdam.

In the first semester (October – January) students, based in Trinity College, study:

- Word and image issues in 19th and 20th century France;
- Introduction to the semiotics of mixed messages;
- Introduction to writing and photography in 20th century France;
- Introduction to analytical and historical bibliography.

Coursework is assessed by two assignments, one oral, and one written, in each semester.

In the second semester (February – May) students, now based in Paris, study:

- Texte et image: problèmes de méthodologie;
- Image et civilisations de l'écriture;
- L'illustration au XIXe siècle français;
- Doctoral seminar at Paris 7.

During the summer (June – September) students are based in either Paris or Dublin.

A mémoire in French is submitted and defended by Paris-registered students in June or September. For the M.Phil., a 15,000-word dissertation in French or English is submitted to Trinity College by 30 September.

### **POSTGRADUATE DIPLOMAS**

#### **OLD IRISH (P.Grad.Dip.)**

COURSE CODE 627

Next intake in October 2006

*Course Coordinator:*  
Professor Damian McManus

*Duration:* One year, full-time

*Closing Date:* 30 June 2006 .  
Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1105

*Email:* pmcmanus@tcd.ie

*Internet:* [www.tcd.ie/Irish/irww317.htm](http://www.tcd.ie/Irish/irww317.htm)

This course is intended to provide graduates in related disciplines with a solid grounding in Old Irish language and literature. Applications are normally accepted only from persons with a good honors degree in a cognate subject such as Modern Irish or another Celtic language, medieval languages, literature or history, archaeology.

The course commences with an introduction to Old Irish, proceeds on to Old Irish literature, including readings in lyrical verse, and also covers Old Irish glosses and saga literature.



# Business, Economic and Social Studies



# Business, Economic and Social Studies

Business, Economic and Social Studies offers attractive research opportunities to well-qualified EU and overseas graduates. Graduates may register for the degree of M.Litt. or Ph.D., a range of postgraduate taught courses or vocational courses in subjects such as Counselling, Addictions, and Child Welfare.

Regular research seminars, which are open to all postgraduate students, facilitate collaborative work across disciplines. A number of funding possibilities exist for full-time research students in the form of bursaries, teaching assistantships, College awards and government studentships.

Business, Economic and Social Studies has strong working relationships with Government departments, industries, business organisations and voluntary agencies. Funding attached to contract research for these organisations makes possible the employment of research assistants and provides opportunities for the continuation of research.

There are several research centres in the area. The Policy Institute conducts interdisciplinary research in public policy and aims to provide an authoritative and critical source of public policy analysis in Ireland. The

Institute for International Integration Studies (IIIS), located in the Arts Building, conducts rigorous academic research on the global and regional dimensions of international business, economic, political and cultural integration. By developing new theoretical and empirical perspectives, it seeks to improve understanding about the many dimensions of the integration process. The Children's Research Centre is another important multidisciplinary centre drawing on staff and postgraduates in Social Studies, Sociology and Psychology. In addition, there are smaller but extremely active research programmes in urban and regional development, employment and non-profit organisations.

Business, Economic and Social Studies is committed to continued development and expansion of its postgraduate programmes. Applications from graduates interested in pursuing research in any of the areas specified in the accompanying information are welcome.

## BUSINESS STUDIES

*Director of Postgraduate Research:*  
Professor Paul Coughlan

*Telephone:* +353-1-608 1027/2688

*Director of Executive Education:*  
Dr Joe McDonagh

*Telephone:* +353-1-608 2330/1024

*Fax:* +353-1-679 9503

*Academic staff numbers:*  
19 full-time; 4 part-time

*Postgraduate numbers:*  
53 research, 111 taught

*Internet:* [www.tcd.ie/Business\\_Studies/](http://www.tcd.ie/Business_Studies/)

Business Studies offers a range of postgraduate programmes for experienced managers and research students.

## Taught Postgraduate Degrees

The longest established postgraduate programme is the M.B.A., which was launched in 1964. The M.B.A is a one-year full-time programme aimed at young and mid-career managers with a strong strategic orientation. Also offered are five part-time M.Sc.(Mgmt.) programmes designed for practicing senior executives. Each of these programmes has a specialist orientation in one of the following areas:



management practice; organisational behaviour; strategic management in the private sector; strategic management in the public sector; and international business. Each is of two years' duration with a schedule that allows senior managers to combine the demands of professional life with advanced study. The alumni of these programmes are to be found in the most senior positions in Irish and multinational corporations and in the public sector.

### Postgraduate Research Degrees

Business Studies is committed to providing outstanding students with the opportunity to train for and conduct serious scholarly research through Masters and Doctoral research. The research degree programme is open to full-time and part-time students. Admission for part-time study is generally limited to staff members of third-level educational institutions or those otherwise professionally engaged in academic and research-related work. Candidates are generally required to hold a good honors degree or equivalent qualification.

As part of their training, research students submit and present formal progress reports at specified times, attend formal research seminars, and complete readings and other studies as directed. Full-time students are

expected to serve as teaching and research assistants for a specified number of hours each week.

Applications for postgraduate research are invited in areas that match the interests of staff members. These interests include, among others: accounting, finance, human resource management, international business, management, marketing, operations management, organisational behaviour and organisation studies. Particular areas of interest are: managing change, voluntary organisations and the voluntary sector, interfaces between I.T. and management/organisational issues, and international integration. Applicants should consult the Business Studies website for full information about the programme and how to apply.

### ECONOMICS

*Director of Graduate Studies:*  
Professor Alan Matthews

*Telephone:* +353-1-608 1069

*Fax:* +353-1-677 2503

*Academic staff numbers:*  
15 full-time, 3 part-time

*Postgraduate numbers:* 40 research

*Internet:* [www.tcd.ie/Economics](http://www.tcd.ie/Economics)

There is an active graduate research programme in Economics, offering both M.Litt. and Ph.D. degrees. The minimum

entry requirements for the M.Litt. programme are an upper second-class honors degree, preferably with economics as a major component.

In their first year, all M.Litt. students take courses in research methods. Depending on the extent of their undergraduate training in economics, they may also be required to take undergraduate courses in economic theory, introductory econometrics or mathematical economics, and one economics course related to the thesis (to be decided by the local Graduate Studies Committee). Performance in these courses at high honors level and a significant start on the thesis is required to progress on to the second year of the programme. Students with sufficient background training in economics are exempt from this coursework.

Students applying for admission to the Ph.D. register must have obtained a high standard in a taught Masters degree in economics with a strong theoretical and quantitative content. Students who are currently completing their taught Masters degree and who expect to achieve a high honors standard are also welcome to apply.

The weekly Graduate Student Seminar is a central element of the programme, which all postgraduate students attend and to which they contribute at least

twice while on the graduate register. It provides them with an opportunity to keep abreast of recent research. In addition, field seminars may be offered where there are sufficient numbers of students with similar interests. In the past, Economics has offered field seminars in International Economics, Transition Economics and Applied Economics.

Economics awards a number of well-funded Teaching Assistantships each year to students on the M.Litt./Ph.D. register. In addition, a small number of sponsored Fellowships are available to support students writing theses on topics of specific interest to the sponsor. Applicants are notified of these opportunities when their application is accepted. Research Assistantships may also be available on an occasional basis.

Applications for postgraduate research are invited in any area that matches the interests of staff members (please see our website for full details). Economics has particular strength in international economics, economic history, transition economics, agricultural economics and the economics of the arts.

### **POLITICAL SCIENCE**

*Graduate Director:* Dr Raj Chari

*Graduate Admissions:*  
Dr Kenneth Benoit

*Closing date for Ph.D. in Political Science:*  
1 April 2005

*Telephone:* +353-1-608 1651

*Fax:* +353-1-677 0546

*Academic staff numbers:* 9 full-time

*Postgraduate numbers:* 32 research

*Internet:* [www.tcd.ie/Political\\_Science](http://www.tcd.ie/Political_Science)

Political Science admits graduate students to its integrated M.Phil./Ph.D. programme only. This is a creative departure from the traditional Ph.D. offered elsewhere in much of Europe and is designed to produce rigorously trained, widely-read and well-rounded political scientists, able to take their place in the forefront of the profession. The programme combines an intensive set of courses on the substance and methodology of research along with a traditional emphasis on conducting original research.

In the first year students follow a number of courses in the qualitative and quantitative aspects of research, a course in political behaviour and comparative politics, which reflects the expertise and interests of most members of the department, and develops a research proposal for the final thesis. At the end of the first year, students with satisfactory grades on their M.Phil. coursework and who have successfully defended their draft thesis proposal, will be eligible to transfer to the register for the Ph.D. in Political Science. Students who pass only their coursework may instead obtain an M.Phil. degree by submitting a research dissertation of 20,000 words. In the second year of the Ph.D. programme, there are further optional courses and students start work on their thesis.



Successful applicants have a good honors degree in political science or a related discipline. Political Science seeks to recruit a varied mix of students from different disciplinary, cultural and educational backgrounds. A limited number of departmental postgraduate awards are available and our students have been very successful in attracting funding from the Irish Research Council for the Humanities and Social Sciences (IRCHSS) after their first year.

### **SOCIAL STUDIES**

*Academic Staff Contact:*  
Professor Robbie Gilligan

*Telephone:* +353-1-608 2001

*Fax:* +353-1-671 2262

*Academic staff Numbers:*

18 (plus 8 researchers in Children's Research Centre and 2 in Addiction Research Centre).

*Postgraduate numbers:*

18 research, 70 taught

*Email:* social.studies@tcd.ie

*Internet:* [www.tcd.ie/Social\\_Studies/](http://www.tcd.ie/Social_Studies/)

Social Studies undertakes teaching and research in the broad areas of social work and social policy. A particular feature of many of its courses is their multi-disciplinary intake. It has particular research strengths in the areas of child welfare, addictions, social security, social policy and ageing,

housing, the voluntary sector and the welfare state. It also aims to make a significant contribution to research and policy in its fields of interest. Staff undertake commissioned research projects as well as pursuing their own research interests. Studies have been completed for many major state and voluntary sector agencies.

In addition to its research students registered for the degrees of M.Litt. and Ph.D., the area offers a full-time Masters in Social Work programme and three part-time taught programmes: Postgraduate Diploma/M.Sc. in Child Protection and Welfare, M.Sc. in Drug and Alcohol Policy, and M. Phil. in Social Work Research.

Social Studies is co-sponsor (with Psychology) of the Children's Research Centre which has eight research staff working on a range of commissioned and other projects. It is also co-sponsor (with Pharmacy) of the Addiction Research Centre, which has a staff of three. In addition, it is committed to developing a programme of research in the field of social policy and ageing.

Social Studies welcomes applications for postgraduate study from suitably qualified Irish and overseas students with relevant interests.

### **SOCIOLOGY**

*Academic Staff Contact:*

Professor Robert Holton

*Postgraduate Coordinator:*

Dr Andrew Finlay

*Telephone:* +353-1-608 2701

*Fax:* +353-1-677 1300

*Academic staff numbers:*

7 full-time, and additional contract staff

*Postgraduate numbers:*

36 research, 46 taught

*Internet:* [www.tcd.ie/Sociology](http://www.tcd.ie/Sociology)

Sociology has a strong record of postgraduate research leading to the degrees of M.Litt. and Ph.D. There is currently a core of seven full-time and one part-time staff members, who supervise research students with interests in the following areas: globalisation; consumer culture; environmentalism; ethnic and racial studies; reproductive health; Irish identities and conflict; labour market; popular music; women and equal opportunities; food and agriculture; narrative analysis; information technology; development and aid.

Sociology has a strong commitment to the teaching of research methodology both at undergraduate and at Masters levels. This expertise feeds into the supervision of postgraduate research students, who often benefit from taking some taught courses in their first year of research.

Sociology runs a weekly seminar at which postgraduates are encouraged to present their work. Recent topics of completed Ph.D. theses include: 'Changing Voices: Abortion talk in Bolivian Medical Settings', 'Towards a Sociology of Art Collection: the Making of a Collection for the Irish Museum of Modern Art', and 'The Responses of Hospital Nurses in Ireland and Southern Italy to the Rationalisation of Public Health Care, 1985-2000'.

Sociology also offers two taught Masters programmes: the M.Sc. in Applied Social Research and the M.Phil. in Ethnic and Racial Studies.

## NAMED DEGREE COURSES

### MASTER IN BUSINESS ADMINISTRATION (M.B.A.)

COURSE CODE 110

*Programme Director:* Ms Karen Finigan

*Duration:* One year, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the M.B.A. Programme, Business Studies, Áras an Phiarsaigh, Trinity College, Dublin 2.

*Contact Information:* Ms Kate Morris, Administrative Coordinator, Trinity M.B.A, Áras an Phiarsaigh, Trinity College, Dublin 2, Ireland.

*Telephone:* +353-1-608 1024;

*Fax:* +353-1-679 9503

*Email:* TrinityMBA@tcd.ie

*Internet:* [www.tcd.ie/Business\\_Studies/Mba/index.html](http://www.tcd.ie/Business_Studies/Mba/index.html)

The Trinity M.B.A. provides an integrated and integrative view of management, and places special emphasis on the perspective and skills of the general manager. The programme's strong general management orientation includes an emphasis on group-based learning. It also emphasises the application of theory and concepts, initially to complex case studies, and then to the reality of a major strategic issue in assigned organisations.

The fundamental orientation of the programme is international. Students are drawn from all over the world and the staff have wide international academic and business experience. For example, the group typically includes students from Ireland, the United Kingdom, the United States, Australia, Canada, Mauritius, Indonesia, Japan and China. The student and staff profile ensures a strong global emphasis.

The small class size and accessible teaching staff ensure a unique and very personalised learning experience. The size of the class enables everyone to feature as an individual and encourages close relationships between students themselves and with the teaching staff.

On the other hand the mix of nationalities, professions and managerial backgrounds promotes healthy discussion and the discovery of new perspectives.

Graduates of the Trinity M.B.A. Programme comprise a network of creative and strategically oriented managers who are making their mark in their chosen fields in all parts of the world.

### MASTER IN MANAGEMENT (M.Sc. (Mgmt.))

*Course Directors:*

Mr Tony Drumgoole, Dr Martin Fellenz, Mr Andrew McLaughlin, Dr Gerard McHugh, Mr John Quilliam

*Duration:* Two years, part-time.

Applications should be addressed directly to the Master in Management Programme, Business Studies, Áras an Phiarsaigh, Trinity College, Dublin 2.

*Closing Date:* 31 July 2005

*Internet:* [www.tcd.ie/Business\\_Studies/MSc/](http://www.tcd.ie/Business_Studies/MSc/)

There are five two-year, part-time programmes, each catering for senior managers working in Ireland. Most students are sponsored by their employers.

**MANAGEMENT PRACTICE  
PROGRAMME (M.Sc. (Mgmt.))**

COURSE CODE 119

Established in 1975, the Management Practice Programme recruits 12 students each September. The programme is based on principles of action learning and students complete a dissertation based on initiatives they have undertaken in their work. They are aided by monthly seminars throughout the two years, and their individual tutor. Dissertations must satisfy internal examiners drawn from the School of Business Studies and the Irish Management Institute, and an external examiner from a leading international business school. A detailed brochure can be obtained from Denise Connor at +353-1-207 8471.

**ORGANISATION BEHAVIOUR  
PROGRAMME (M.Sc. (Mgmt.))**

COURSE CODE 146

Established in 1977, the Organisation Behaviour Programme recruits 25 students every second October on a two-year cycle. The next programme will commence in October 2005. The programme comprises a range of lecture courses in which various management and social science disciplines are applied to the practical problems of management. Students must succeed in examinations at the end of each of

the two years and must also submit a dissertation during the second year. A detailed brochure can be obtained from Claire Walsh at +353-1-207 8419.

**BUSINESS ADMINISTRATION  
PROGRAMME (M.Sc. (Mgmt.))**

COURSE CODE 199

The Business Administration Programme recruits 25 students every second January on a two-year cycle. The next intake will be in January 2005. The first year of the programme comprises three taught modules in a range of management subjects, which are examined at the end of each module. The second year is devoted to a systematic analysis in small groups of companies that provide student access and cooperation. Members of the class work in groups to produce a diagnosis

of the major issues facing the company and to make recommendations. The programme is aimed at experienced managers who are about to move into top management teams and general management. A detailed brochure can be obtained from Ruth Maybury at +353-1-207 8522.

**STRATEGIC MANAGEMENT  
PROGRAMME (PUBLIC  
SECTOR) (M.Sc. (Mgmt.))**

COURSE CODE 207

The programme is designed for senior civil servants at Assistant Secretary level who are nominated by their Departments. The programme recruits 12 students on a two-year cycle. The next programme commences in January 2005. The first year of the programme consists of three taught modules





relevant to the strategic management of public sector organisations, these are examined at the end of each module. In the second year students complete a group project based on analysis of carefully targeted public sector organisations overseas. Each student also completes an individual project concerning a strategic issue within his or her department. A detailed brochure can be obtained from Ruth Maybury at +353-1-207 8522.

### **INTERNATIONAL BUSINESS PROGRAMME (M.Sc. (Mgmt.))**

COURSE CODE 679

The International Business Programme is offered in partnership with Enterprise Ireland. The programme recruits 30 students on a two-year cycle. The next programme commences in October 2005. The programme is aimed at young managers in the small and medium sized enterprise sector and addresses the challenges confronting organisations competing in highly competitive international markets. There is a strong emphasis on effective individual and team performance and on general/strategic management in the global context. The programme draws on the expertise of the Business Economics and Social Studies area, and its international partner institutions such as IMD (Switzerland). A detailed brochure can be obtained from Deirdre Caden at +353-1-608 2338.

### **MASTER IN SOCIAL WORK**

COURSE CODE 669

*Course Director:* Dr Trish Walsh

*Duration:* Two years, full-time

*Closing Date:* 28 February 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2423

*Email:* mckiernnd@tcd.ie

*Internet:* [www.tcd.ie/Social\\_Studies/](http://www.tcd.ie/Social_Studies/)

Social work is a challenging and a rewarding activity and requires a personal commitment to the ideals and values of the social work profession. Those considering social work as a career option should be aware of its ethical and value dimensions and, in particular, the commitment of practitioners to the promotion of social justice.

The Master in Social Work course offers a route to a professional qualification in social work for applicants with a primary degree in the Social Sciences or equivalent. It combines an academic postgraduate award with the National Qualification in Social Work (NQSW). The professional qualification is awarded by the National Social Work Qualifications Board and the academic qualification is awarded by the University of Dublin.

Applicants should hold a primary social science degree (second-class honors or higher), or equivalent, and substantial relevant practice experience. The course includes two fieldwork placements, one of which may be located outside the Dublin region. There are 23 places on the course each year.

This is a two-year full-time, programme consisting of 14 weeks full-time academic attendance and 14 weeks full-time practice education attendance each year.

The programme is geared towards an international perspective and the student group can avail of placement opportunities in Canada, South Africa, the USA, England and in Ireland.

### **M.Sc. COURSES**

#### **APPLIED SOCIAL RESEARCH (M.Sc.)**

COURSE CODE 252

*Course Director:* Dr Evelyn Mahon

*Duration:* One year, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2314

*Email:* emahon@tcd.ie

*Internet:* [www2.tcd.ie/Sociology/msc2.htm](http://www2.tcd.ie/Sociology/msc2.htm)

The M.Sc. in Applied Social Research is a one-year, full-time taught course. It is designed for graduates who wish to develop their research skills and gain employment in the rapidly expanding area of applied research. Using a combination of lectures, workshops and practical assignments, this M.Sc. programme will train graduates to do the following:

- Conduct primary research using surveys, interviews and content analysis,
- Analyse the research data collected using a variety of computer programmes and
- Write and present research reports.

Initiated in 1997, the M.Sc. in Applied Social Research has established an excellent reputation in training students in applied research skills. Graduates of the course are employed in a variety of organisations, including government departments, semi-state agencies, private corporations and companies, and in research institutes and consultancies.

The M.Sc. programme consists of a number of integrated courses in research design and methods, which run for twenty weeks over Michaelmas and Hilary terms. Students then go on paid work placements in Trinity term for

approximately 12 weeks. Over the months of July, August and September, students complete their dissertations, submitting them in September.

Applicants should normally have an upper second-class honors degree in one of the Social Sciences. Applications from graduates in other disciplines who have relevant experience will be considered.

### **CHILD PROTECTION AND WELFARE (M.Sc./P.Grad.Dip.)**

COURSE CODE 235/229

*Course Coordinator:*  
Professor Robbie Gilligan

*Duration:* Two years, part-time

*Closing Date:* 31 July 2005. Applications should be addressed directly to the Child Protection and Welfare Programme, Social Studies, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1331

*Email:* rgillign@tcd.ie

*Internet:* [www.tcd.ie/Social\\_Studies/pgtaught.htm](http://www.tcd.ie/Social_Studies/pgtaught.htm)

Students interested in registering for the M.Sc. programme must initially register for the Postgraduate Diploma (see separate entry under Postgraduate Diplomas). Admission to the second year of this two-year part-time in-service M.Sc. programme is confined to

candidates who achieve an upper second-class grade in the Postgraduate Diploma and whose research proposal for their M.Sc dissertation is accepted. The second year comprises a series of lectures/seminars on organisational change and development, evaluation research methodology and related issues, entailing attendance at College approximately two days per month over the academic year. There is also regular contact with the student's assigned academic supervisor.

### **DRUG AND ALCOHOL POLICY (M.Sc.)**

COURSE CODE 625

Next intake October 2006

*Course Coordinator:* Dr Shane Butler

*Duration:* Two years, part-time

*Closing Date:* 30 April 2006. Intake every second year. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2009

*Email:* sbutler@tcd.ie

*Internet:* [www.tcd.ie/Social\\_Studies/pgtaught.htm](http://www.tcd.ie/Social_Studies/pgtaught.htm)

This course has been designed to offer a broad critical understanding of how society attempts to prevent or respond to problems associated with the use of

licit and illicit drugs, as well as a more specific opportunity to develop research, management and policy-making skills in this area.

The course is aimed primarily at those who hold management or policy-making positions in any of the human service organisations which deal with drug and alcohol problems, but it also seeks to attract professionals who might play a leadership role in addictions work within their own professions.

Candidates from the first category might include: middle-ranking or senior civil servants or health board officials; directors or senior workers from voluntary drug and alcohol services; senior officials from the Probation and Welfare Service, the Prison Service or the Garda Síochána; members of Local Drugs Task Forces. Candidates from the second category might include: family doctors, community pharmacists, teachers, social workers, public health nurses, and other community care personnel. Candidates must have current or recent experience of either direct service provision, administration or policy making relevant to the addictions field.

## **ECONOMICS (M.Sc./P.Grad.Dip.)**

COURSE CODE 716

*Course Director:* Dr Paul Walsh

*Duration:* One year, full-time

*Closing Date:* 31 March for non-EU students and 30 April for EU students.

Later applications will be considered provided places are available.

Applications should be addressed directly to the Economics Programme, Department of Economics, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1325

*Email:* susan.Phillips@tcd.ie

*Internet:* [www.tcd.ie/economics/post\\_intro](http://www.tcd.ie/economics/post_intro)

The objective of this programme is to provide well qualified graduates with the training required to enter Ph.D. programmes in economics or to work as economists in government or private-sector organisations. The programme focuses on the technical skills needed to undertake economics research and emphasises active and problem-based learning to ensure mastery of the basic skills.

Candidates should normally hold at least a second class honors, Grade 1 degree that has a significant economic theory and/or quantitative component. Applications are expected from candidates with single or joint honors Economics degrees, Business or BComm

degrees with final-year Economics options, and Maths, Physics or Engineering graduates.

The programme is of ten months duration, on a full-time basis, with a month-long preliminary training in mathematics and statistics and nine months on the M.Sc. register. The preliminary course commences at the beginning of September and the M.Sc. concludes with the submission of a dissertation by the following June. Students must pass the preliminary course in order to be admitted to the M.Sc. programme proper.

The M.Sc. programme consists of four courses: Microeconomics, Macroeconomics, Econometrics and a Research Topics course in which individual members or staff discuss their particular research areas. The core courses are taught around weekly problem sheets followed by examinations, while the Research Topics course is examined on the basis of a number of seminar papers that should provide a critical analysis of the research areas surveyed. In addition, students are expected to complete a dissertation of 12,000 words. The ability to progress to the dissertation is dependant on achieving a satisfactory pass mark in the coursework components. Students who are unable to proceed to the dissertation or who fail to achieve

a satisfactory mark for the dissertation element may be eligible for the award of a Diploma in Economics.

Economics has close links with both the Institute for International Integration Studies and the Policy Institute at Trinity College and students on the M.Sc. programme will have access to the seminar programmes of both Institutes.

### **ECONOMIC POLICY STUDIES (M.Sc.)**

COURSE CODE 195

Next intake October 2005

*Programme Coordinator:* Ms Mary Brew

*Duration:* Two years, part-time

*Closing Date:* 30 June 2005, intake every second year. Applications should be addressed directly to Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3485

*Fax:* +353-1-677 0546

*Email:* msceps@tcd.ie

*Internet:* [www.policyinstitute.tcd.ie/msc.html](http://www.policyinstitute.tcd.ie/msc.html)

This programme is designed to provide its graduates with the skills to apply economic perspectives, approaches and related skills to the study of policy in organisations. There is an intake of new students every second year; accordingly the next student intake will be for the

academic year commencing in October 2005. Staff from Economics, Business Studies, Political Science and Statistics, together with some outside experts lecture on the programme and the Policy Institute handles coordination and administration. The programme's aim is to provide participants with a greater understanding of the policy process. This will enable them to contribute more effectively to the processes of policy formulation, change and implementation, using concepts and methodologies from economics and drawing in elements of other social science disciplines. Policy-making in any field requires a range of skills; while this programme is designed to develop skills in economic policy, it also seeks to provide the students with additional skills from other disciplines that will allow them to become effective economic policy-makers.

During the two years, students will undertake a number of courses over three terms (from October of year one to December of year two) and spend the remainder of the second year working on their dissertations. The five compulsory courses to be taken by all students in year one are as follows: statistics and research methods; modelling for public sector decision-making; understanding markets; domestic and supranational policy-making in Europe; understanding the

economic policy context. In the second year, students must choose to continue their studies in one of two streams: competition and regulation, or policy analysis and evaluation.

The courses on Policy Analysis and Evaluation stream cover Economic Analysis, Government Intervention and Project Appraisal; Tax Policy; Project Management; New Public Management and Delivery; and Programme Evaluation.

The courses on the Competition and Regulation stream cover Economic and Legal Aspects of Competition and Regulation.

### **M.Phil. COURSES**

#### **ETHNIC AND RACIAL STUDIES (M.Phil.)**

COURSE CODE 262

*Course Coordinator:* Dr Ronit Lentin

*Duration:* One year, full-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2766

*Email:* [rlentin@tcd.ie](mailto:rlentin@tcd.ie)

*Internet:* [www2.tcd.ie/Sociology/mphil/mphil.htm](http://www2.tcd.ie/Sociology/mphil/mphil.htm)

This programme provides specialist training in the field of Ethnic and Racial Studies. Candidates should have a good first degree (preferably upper second-class) in one of the social sciences or a degree that has included social science as a component. The following criteria will also be taken into account:

- The quality of the academic references
- The quality of the statement of interest provided by each candidate
- Relevant work experience may also be taken into account.

In exceptional cases, applicants without a first degree may be accepted directly into the programme if they can demonstrate that they possess the equivalent of a good first degree. The quality of the statement of interest provided by each candidate would be taken into account. Applicants seeking admission in this category will, where practicable, be called for interview.

In addition the following would typically be required:

- Successful recent academic study in a relevant area
- Publications that demonstrate research or analytical capacity

- Academic references
- Work experience relevant to cross-cultural, ethnic and racial issues and human service delivery.

The programme has four components.

- i) Core courses: 'race' and ethnicity, theoretical concepts; researching 'race' and ethnicity.
- ii) Seven one-term courses: migration and population movement; ethnicity and social policy; language, ethnicity and expressive culture; culture, colonialism and Irishness; human rights and international issues; gender and ethnicity; intercultural communication (topics can vary from year to year).
- iii) A 20,000 word dissertation on any approved topic relating to ethnic and racial issues.
- iv) Seminars, lectures and occasional workshops are also offered during the academic year.

The programme is ideally suited to public and voluntary sector employees and has attracted a diverse international student body.

## **SOCIAL WORK RESEARCH (M.Phil.)**

COURSE CODE 615

*Acting Course Coordinator:*  
Professor Robbie Gilligan

*Duration:* Two years, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2065

*Email:* robbie.gilligan@tcd.ie

*Internet:* [www.tcd.ie/Social\\_Studies/pgtaught.htm](http://www.tcd.ie/Social_Studies/pgtaught.htm)

The M.Phil. in Social Work Research is designed for social science graduates who are also professionally qualified social workers, and who seek Masters level research training in social work. The programme will build on students' academic and professional experience and develop their capacity to understand, undertake and commission applied social research in areas of current social work concern.

Candidates must have a good honors degree in the social sciences, a social work qualification – National Qualification in Social Work or equivalent, a minimum of one year's employment in a qualified social work post.



Interested applicants should contact Professor Robbie Gilligan prior to submitting their application.

## POSTGRADUATE DIPLOMAS

Some Masters courses have the option of a Postgraduate Diploma in cases where the taught course has been satisfactorily completed but a dissertation has not been submitted. Such P.Grad.Dip. courses are not listed below as they are not open to entry as separate options from their parent Masters course i.e. students apply for entry to the appropriate Masters course.

## CHILD PROTECTION AND WELFARE (P.Grad.Dip.)

COURSE CODE 229

*Course Coordinator:* Dr Helen Buckley

*Duration:* One year, part-time.

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Child Protection and Welfare Programme, Department of Social Studies, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2065

*Email:* [hbuckley@tcd.ie](mailto:hbuckley@tcd.ie)

*Internet:* [www.tcd.ie/Social\\_Studies/pgtaught.htm](http://www.tcd.ie/Social_Studies/pgtaught.htm)

The programme is run on an in-service basis over one academic year, entailing attendance at an induction course and nine block weeks in Trinity College as well as the completion of course-related assignments in the workplace. The multi-disciplinary intake comprises experienced and senior personnel from a range of relevant disciplines, for example, social work, public health nursing, education, community based and residential child care, psychology,

An Garda Síochána, youth and project work. The course is designed to strengthen the capacity of the health, social service, education and criminal justice systems to identify and respond to the needs of vulnerable and abused children and their families. It is organised in close collaboration with the Department of Health and Children and the health boards. Successful students may proceed to the Masters course after completing year one.







# Engineering and Systems Sciences

# Engineering and Systems Sciences

Engineering and Systems Sciences comprises the disciplines of Civil, Structural and Environmental Engineering, Computer Science, Electronic and Electrical Engineering, Mechanical and Manufacturing Engineering and Statistics. The area offers a wide range of research opportunities leading to higher degrees and over 20 postgraduate degree and diploma programmes, both full and part-time, covering the broad range of engineering and statistical disciplines. Some of the more recently established programmes have an interdisciplinary character, e.g. I.T. in Education, while others are a response to the skills shortage in engineering and technology e.g. Integrated Systems Design. The taught postgraduate programmes enable students to significantly enhance their depth of knowledge and to develop specialist skills at an advanced level.

Currently, there are nearly 700 postgraduate students and a significant number of postdoctoral fellows and research associates all combining to make this area in College a lively and friendly centre of learning with an international outlook.

The area is at the forefront of international research with an annual research income of over €3 million mainly from the European Union, National Research Programmes and industry. These research activities have spawned a number of very successful companies including Iona Technologies and Silicon and Software Systems (S3). There is a stimulating and exciting environment to prospective postgraduate students; all interested candidates are advised to make direct contact with the relevant academic staff member in the first instance. Financial support is often available for well-qualified applicants and is generally linked to specific research projects.

## **CIVIL, STRUCTURAL AND ENVIRONMENTAL ENGINEERING**

*Academic Staff Contact:* Dr Roger West

*Telephone:* +353-1-608 2217

*Fax:* +353-1-677 3072

*Academic staff numbers:*

15 full-time academic

*Postgraduate numbers:*

45 research, 30 taught, 220

Postgraduate Diplomas

*Internet:* [www.tcd.ie/Civil\\_engineering/](http://www.tcd.ie/Civil_engineering/)

The principal areas of interest are Structural Engineering, Environmental Engineering, Geotechnics and Highways and Transportation. The courses offered include postgraduate courses leading to a Masters degree and seven different Diplomas. There are also many opportunities for research in different areas of civil engineering. The degrees available are Ph.D., M.Sc. (by research and by taught course), M.A.I. (ordinary and recurrent education) and Postgraduate Diplomas.

The M.Sc. taught course may be taken on a full-time basis over one year, or part-time over two years. It allows students to gain specialist knowledge in the areas of environmental and transportation engineering.

The area has an international research reputation in the environmental, geotechnical, structural, transportation and materials engineering. The state-of-the-art laboratories, field units and the wide ranging expertise of both the academic and the technical staff combine to make the area one of the most rapidly developing centres of civil engineering research in Ireland.

**COMPUTER SCIENCE***Academic Staff Contact:*

Dr David Abrahamson

*Telephone:* +353-1-608 1765*Fax:* +353-1-677 2204*Academic staff numbers:* 45 academic*Postgraduate numbers:*

140 research, 137 taught

*Internet:* [www.cs.tcd.ie](http://www.cs.tcd.ie)

Computer Science is the second largest area in Trinity. Its basic aim is to educate its students to be designers of large complex systems, such as hardware, software or a combination of both, and to prepare them to embrace the inevitable developments that will occur in Computer Science over time. Another major objective is to train the researchers and academics of the future, and consequently the area is very active in research and continues to be one of the major focal points for research in the College.

Computers are applied so extensively that it is impossible to cover all that can be usefully taught on a single course. There is a variety of courses both day and evening which are oriented towards different fields such as engineering, information systems, ubiquitous computing, networks and distributed systems, natural language processing, multimedia systems and health informatics. Postgraduate students can

currently avail of six taught M.Sc. courses as well as opportunities to undertake research degrees at both M.Sc. and Ph.D. level.

There are many research groups, covering a wide range of topics from the theoretical to the applied. Much of the research is funded by the EU; national funding agencies such as the Science Foundation Ireland and the Higher Education Authority; and both indigenous and multinational companies.

Research interests include: distributed systems including middleware and ubiquitous computing; artificial intelligence, especially logic programming, neural networks and case-based reasoning; cognitive science; computational linguistics; natural language processing; computer vision and Robotics; image processing; aids for the disabled; land mine detection; networks and telecommunications including network management, security, electronic commerce and mobile communications; computer architecture; grid computing; multimedia servers; computer graphics; image synthesis and animation; virtual reality; multimedia systems; information systems and management; management of I.T.; strategic information systems management; health informatics; and formal methods.

The subject is developing at such a rapid pace that new opportunities constantly arise and we welcome suggestions – both those which are new approaches to existing work and new developments.

**ELECTRONIC AND ELECTRICAL ENGINEERING***Academic Staff Contact:* Dr Alan Moore*Telephone:* +353-1-608 1738/1580*Fax:* +353-1-677 2442*Academic staff numbers:* 14 academic*Postgraduate numbers:*

22 research, 39 taught

*Internet:* [www.mee.tcd.ie/](http://www.mee.tcd.ie/)

Electronic and Electrical Engineering has a major commitment to the education of students at both M.Sc. and Ph.D. levels. Most of these postgraduate students are engaged on programmes of research with the research projects funded from the State, EU and industrial sources.

The area aims to produce high-calibre researchers for industry and academia who have achieved standards of excellence and are trained to a level of proficiency in the methodologies for carrying out programmes of individual research.

The staff are always willing to hear from prospective graduate students.



Assistance with funding can sometimes be provided. The staff are determinedly research-focused with a strong commitment to the development of the discipline of electronic and electrical engineering over a breadth of topics.

There are three main research areas that lie within the broad engineering discipline of Information and Communications Technology, or ICT.

### **Electronic Engineering Materials and Microelectronic Technology**

This is a well-established research area that includes the design and development of measurement techniques suitable for the measurement of the electrical properties of ferroelectric liquid crystals, glass-forming liquids and polymers and the magnetic and dielectric properties of nano-materials, in particular magnetic fluids. On the theoretical side, much work has been carried out on developing an understanding of the role of dipole-dipole interactions and of inertia in determining the dielectric properties of materials. Recently this work has been directed to the dynamics of ferromagnetic nanoparticles and to liquid crystals.

In the microelectronics fabrication and test area, research interest includes the preparation and characterisation of different structures formed on silicon. These include quantum dots (Ge and

SiGe), thin layers of SiC, SiN, SiO<sub>x</sub>, Si<sub>1-x</sub>Gex, and Si<sub>1-x-y</sub>GexCy as well as SOI and micro-and macro-porous silicon structures. The composition and structure of these layers, as well as the associated strain and stress, is currently under investigation using advanced characterisation techniques. A recent study involved the use of rapid thermal processing (RTP), combined with the use of doped oxides, as a means of forming ultra-shallow junctions.

### **Electronic Circuit Design**

Design activities extend from mapping DSP algorithms onto architectures and subsequently onto libraries of standard cells, through to full-custom circuit design in CMOS and BiCMOS technologies with an emphasis on low-power dissipation. Specific work includes adaptive signal processing ASICs, power-speed figure of merit studies and the implementation of medical instrumentation applications in discrete and integrated form.

### **Communications Engineering and Signal Processing**

Work in communications is broadly directed towards land mobile radio communication and propagation, and includes computational electromagnetics, wave scattering, channel identification and modelling, modulation, and digital receiver

architectures. Application work focuses on propagation planning and analysis for mobile radio, wireless LAN's. Work in signal processing lies broadly in the areas of image/video processing, audio and acoustic analysis and biomedical, adaptive and Bayesian signal processing.

### **MECHANICAL AND MANUFACTURING ENGINEERING**

*Academic Staff Contact:*

Professor Henry Rice

*Telephone:* +353-1-608 1996

*Fax:* +353-1-679 5554

*Academic staff numbers:* 15 academic

*Postgraduate numbers:* 50 research students and 12 on the taught M.Sc. in Bioengineering

*Internet:* [www.mecheng.tcd.ie/](http://www.mecheng.tcd.ie/)

Mechanical and Manufacturing Engineering is located within the Parsons Building at the East end of the College and houses excellent research and laboratory facilities. Most of its research is funded through collaborative projects involving industry, the EU and national government programmes.

The area has an international reputation for excellence in research. Suitably qualified candidates can apply for registration as graduate students working in the research groups given below and research funding often

provides scholarships for Masters and Doctoral students, to cover the registration, course fees and living costs of research students.

The main research activities are conducted within the following research groups:

- Computer aided engineering
- Sound and vibration
- Fluid mechanics and heat transfer
- Applied thermodynamics and energy
- Trinity centre for bioengineering ([www.biomechanics.ie](http://www.biomechanics.ie))
- Materials engineering
- Manufacturing technology and tribology.

Also on offer is a taught M.Sc. course in Bioengineering, run jointly with the University of Limerick and University of Ulster. This course can be covered in one year full-time or over two years as a part-time student. The course aims to equip engineering graduates with the necessary knowledge and skills to work in the medical device industry.

Further information, including details of the latest scholarship opportunities, can be found on our web page, or by contacting Professor John Fitzpatrick, our Postgraduate Advisor of Studies ([john.fitzpatrick@tcd.ie](mailto:john.fitzpatrick@tcd.ie)).

## STATISTICS

*Academic Staff Contact:*

Mr Eamonn Mullins

*Telephone:* +353-1-608 1062

*Fax:* +353-1-661 5046

*Academic staff numbers:*

11 full-time, 2 part-time

*Postgraduate numbers:*

10 research, 78 taught

*Internet:* [www.tcd.ie/Statistics/](http://www.tcd.ie/Statistics/)

Statistics was founded in 1966 and is now the largest such research area in Ireland. The research interests of its staff and graduate students extend well beyond the traditional boundaries of the discipline of Statistics and now encompass research in Information Systems, including their impact on management and on society.

Within Statistics defined traditionally, methodological interests include: modern computationally intensive tools in both Bayesian and classical statistics, driven by new applications in science and engineering; theoretical work on modern regression methods; and on specialist applications of statistics in business, industry and society as well as on methods for teaching Statistics. Research in Information Systems includes quantitative methods in database analysis and qualitative work on evaluation.

Specific applications include: quality control and process improvement initiatives particularly in analytical

chemistry; data mining including record retrieval from multimedia databases; determination of food authenticity; reconstruction of past climates; material fatigue in artificial joints; image and signal processing; software reliability; finance; sports; ageing; gender studies; yield management in tourism; government and e-democracy; and the use of information systems in management. Computationally intensive methods include Markov chain Monte Carlo, Bayesian learning and data mining, applications of the EM algorithm and adaptive regression splines.

Projects currently supporting research students under funding from national and international agencies include: database projects MOUMIR and MUSCLE, funded by the EU under the 'Excellence of Networks' and 'Training and Mobility' schemes; projects on new statistical methods for the reconstruction of the European climate since the last Ice Age and methodological work in mixtures and classification, both funded by Science Foundation Ireland; novel methods for the analysis of multi-spectral data in the assessment of meat, funded by Teagasc; new spatio-temporal models for crack growth in metals, funded by Enterprise Ireland; and projects involving the statistical analysis of social data, with a particular emphasis on gender, funded by Wicklow Chamber of Commerce and the Department of Education and Science.

## NAMED DEGREE COURSES

### MASTER IN ENGINEERING (M.A.I.)

COURSE CODE 154

*Course Coordinator:* Dr Eric Farrell

*Closing Date:* 31 July 2005. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1146

*Email:* gilll@tcd.ie

There are two possible routes for the Master in Engineering M.A.I. degree.

By the first route, for the 'ordinary' M.A.I. degree, the candidate must already have taken the degree of B.A.I. of the University of Dublin and have practised for three years as an engineer. To qualify for the M.A.I. degree, the candidate must present a written thesis, which must take the form of either a report on a piece of engineering research, carried out by the candidate individually or as one of a group, or else a description of a substantial project in design, construction, development or production in an engineering field in which he or she has taken part.

The second route, for the degree known as the M.A.I. (Recurrent Education) is outlined below.

### MASTER IN ENGINEERING (M.A.I.) RECURRENT EDUCATION

COURSE CODE 164

*Course Coordinator:* Dr Eric Farrell

*Closing Date:* 31 July 2005. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1146

*Email:* efarrell@tcd.ie

The M.A.I. (Recurrent Education) is a Masters degree for engineering graduates. Students for this degree must complete a research project carried out in his/her professional environment or a detailed case history of a significant industrial project in design, development or production in an engineering field in which he/she has taken part.

Before registering for the M.A.I. (Recurrent Education) degree, students must have completed an approved combination of two of the following postgraduate diploma courses: P.Grad.Dip. in Construction Law and Contract Administration; P.Grad.Dip. in Environmental Engineering; P.Grad.Dip. in Fire Safety Practice (Buildings and Other Structures); P.Grad.Dip. in Highway and Geotechnical Engineering; P.Grad.Dip. in Physical Planning;

P.Grad.Dip. in Project Management; either P.Grad.Dip. in Statistics or Postgraduate P.Grad.Dip. in Quality Improvement. The successful completion of the former P.Grad.Dip. in Public Administration for Engineers (run by the IPA) will also be considered.

## M.Sc. COURSES

### BIOENGINEERING (M.Sc./P.Grad.Dip.)

COURSE CODES 631/630

*Course Director:* Dr Ciaran Simms

*Duration:* P.Grad.Dip.: nine months; M.Sc.: one year, or part-time over two years.

*Closing Date:* 31 July 2005. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3768

*Email:* csimms@tcd.ie

*Internet:* [www.tcd.ie/bioengineering](http://www.tcd.ie/bioengineering)

Bioengineering may be defined as the application of the principles of engineering to advancements in healthcare and medicine. It is an interdisciplinary field requiring knowledge of both medicine and engineering. The primary aim of this course is to give engineers the knowledge to apply science and

technology to the solution of healthcare problems, particularly through the design, development and manufacture of medical devices. Regulatory issues in medical device technology are also addressed.

The course is run on an all-Ireland basis, with centres in Trinity College Dublin, the University of Limerick and the University of Ulster. Students will be based in one centre, where they will carry out a research project. Courses will be taught partly in one-week intensive modules, for which students will visit the other centres, and partly by distance learning using the Internet.

The diploma course consists of five modules. The Masters course consists of five modules together with an extended research project. The course modules cover the following subject areas: biomechanics and implant design, biomaterials, medical electronics, signal processing and medical informatics.

The entry requirement is a good honors degree or similar qualification in engineering or a cognate discipline.

## **CIVIL ENGINEERING (M.Sc.)**

COURSE CODE 211

*Course Director:* Mr Laurence Gill

*Applicants' enquiries:* Mr Bruce Misstear

*Duration:* One year, full-time; two years, part-time

*Closing Date:* 31 July 2005. Late applications may be considered if places remain available after the closing date. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1047

*Email:* gilll@tcd.ie

*Internet:* [www.tcd.ie/Civil\\_engineering/courses/msc/index.htm](http://www.tcd.ie/Civil_engineering/courses/msc/index.htm)



This course aims to provide graduates from Ireland and abroad with an advanced knowledge of various aspects of Civil Engineering. The course has a modular structure, which allows students to study subjects in Environmental Engineering and Highways and Transportation – or any combination of subjects within these disciplines. Students also take a compulsory module in Civil Engineering Management and Research Methods.

The M.Sc. Course commences in early October and comprises two terms of lectures, with examinations, followed by a major dissertation. This course may either be taken full-time over one year or part-time over two years. The entry requirement is a good honors degree in Civil Engineering or a related discipline.

## **COMPUTER SCIENCE (NETWORKS AND DISTRIBUTED SYSTEMS) (M.Sc.)**

COURSE CODE 619

*Course Director:* Professor Vinny Cahill

*Duration:* One year, full-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3094

*Email:* [mscnds-info@cs.tcd.ie](mailto:mscnds-info@cs.tcd.ie)

*Internet:* [www.cs.tcd.ie/courses/mscnds/](http://www.cs.tcd.ie/courses/mscnds/)

The M.Sc. programme in Computer Science equips students with the theoretical and practical background necessary to enable them to participate in the design of complex networked and distributed computing systems, as well as to undertake research in this area.

The programme is assessed based on a combination of assigned coursework, written examination, and a dissertation. The programme is composed of a number of modules that are taken by all students. These modules include:

- Networked applications: covers applications of the Internet and Intranets ranging from email and the Web to electronic commerce; collaboration and community services; distributed artificial intelligence; and information retrieval.
- Data communications and networks: introduces the fundamentals of computer networks and networking technology.
- Distributed systems: covers the most important paradigms for building distributed applications including client-server computing, distributed object technology, and component models.
- Software engineering for concurrent and distributed systems: covers object-oriented analysis and design techniques and their application to concurrent and distributed systems.

- Security and management of networks and distributed systems: introduces the fundamentals of computer and network security and investigates different approaches to network management and the management of advanced information services.

This course is open to graduates who have achieved the equivalent of at least an upper second-class honors degree, or better, in computing, information technology, or a related discipline. Well-qualified candidates from disciplines such as engineering, mathematics, statistics, or physics who have sufficient knowledge of computing (including the ability to program) may also be accepted.

### **COMPUTER SCIENCE (UBIQUITOUS COMPUTING) (M.Sc./P.Grad.Dip.)**

COURSE CODE 702/703

Entry via Diploma. For full details see the P.Grad.Dip section below.

### **HEALTH INFORMATICS (M.Sc./P.Grad.Dip.)**

COURSE CODES 617/616

Entry via Diploma. For full details see the P.Grad.Dip section below.

### **I.T. IN EDUCATION (M.Sc.)**

COURSE CODE 641

(Jointly with Arts (Humanities))

*Course Director:* Mr Brendan Tangney

*Duration:* Two years, part-time

*Closing Date:* 30 April 2005. Late applications may be considered if places remain available after the closing date. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3625

*Email:* mscidedu-info@cs.tcd.ie

*Internet:* [www.cs.tcd.ie/courses/mscitedu/](http://www.cs.tcd.ie/courses/mscitedu/)

As I.T. moves centre stage in the educational world, it is imperative that people involved in education and learning have a good understanding of how the technology can be best deployed to improve the learning experience. It is also imperative that computer scientists provide technology, which has genuine pedagogical advantages, and not just technology for technology's sake.

This course is jointly run by Computer Science and Education and its aim is to produce graduates who will be able to play a leadership role in the use of I.T. for training and in all levels (1st, 2nd and 3rd) of the education system. On



the educational side graduates of the course will have an understanding of the enhancement to the pedagogical process that I.T. might facilitate. Graduates will have a familiarity with, and confidence in using, appropriate teaching strategies; a knowledge of systems and approaches developed in other countries; a knowledge of social and psychological issues relating to I.T. in education; an ability to utilise I.T. in the teaching and learning process and confidence in introducing I.T. to other colleagues. On the technical side graduates of the course should have a good knowledge of the principles of computer operation and computer networks, the use of the Internet as an information storage and retrieval facility and multi-media authoring.

Graduates of the programme will have carried out a substantial piece of research which might typically involve the development of I.T. based tools or teaching materials, and their operation and evaluation in a learning environment.

Admission is normally restricted to applicants who have achieved an upper second-class honors degree (or better) in a primary degree. Equivalent qualifications or experience are taken into account. Preference will be given to applicants who have at least three years in teaching, training or instructional

technology development. A qualification in Computer Science is not required but applicants are expected to be computer literate. Applicants meeting the necessary requirements will normally be interviewed.

The course is run on a part-time basis. In the first year there are formal classes on Friday afternoons and Saturday mornings. The second year is devoted to the completion of a research dissertation.

### **INTEGRATED SYSTEMS DESIGN (M.Sc.)**

COURSE CODE 657

*Course Coordinator:* Dr Anil Kokaram

*Duration:* Two years, part-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2508

*Email:* nmoore@tcd.ie

*Internet:* [www.mee.tcd.ie/~isd/](http://www.mee.tcd.ie/~isd/)

This course is targeted at employees of I.T. companies principally involved with systems design at the chip and general-purpose hardware and software level. The main aim of the course is to educate students in the foundations that drive the development of tools and solutions for the future of integrated

systems design. Furthermore it develops the knowledge and understanding needed to approach the design of modern integrated systems. The goal is to produce engineers who can see the broader picture of the system purpose and deploy algorithmic developments at the design level appropriate to the target system.

Course contact hours will occupy approximately one day in each of 30 weeks in the academic calendar (beginning during October), split into three sets of 10 week terms. There are three subject areas in the first year: digital communications; digital signal and image processing; integrated circuit design. All subjects are compulsory. The second year consists of a taught portion and a substantial individual research project for which the student submits a dissertation (between 18,000 and 25,000 words) at the end of the year. The taught portion covers advanced topics in communications; digital video; integrated circuit design.

Applications will be considered from those who:

- Hold a good honors degree (at least upper second-class level) in a professional (computing/engineering) discipline, or
- Hold an equivalent qualification with relevant professional experience.

Applicants meeting the necessary requirements may be interviewed. The course will only run provided there are a sufficient number of suitable applicants.

### **MANAGEMENT OF INFORMATION SYSTEMS (M.Sc./P.Grad.Dip.)**

COURSE CODES 701/700

*Course Coordinator:* Mr Alan Mullally

*Duration:* Two years, part-time

*Closing date:* 31 July 2005. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1785

*Email:* alan.mullally@tcd.ie

*Internet:* www.cs.tcd.ie/courses/smscmis/

This course aims to provide students with the knowledge and skills to undertake senior professional managerial roles within the I.T. sector. It brings together the latest research coupled with best internationally accepted management practice and relates these to the needs of today's organisation.

The course consists of a taught component and a substantial research project resulting in a dissertation of 20,000 words. The taught component covers the following areas: strategic systems planning for information systems;

social impact of information systems; managing the I.T. supplier environment; managing the I.T. customer environment; innovation and entrepreneurship in IS/IT and research methods.

Applicants for this course must normally hold a good honors degree (at least upper second-class level) in computer science, information systems, information technology, business and information technology, computer engineering or a cognate discipline. Relevant professional experience is also desirable. Applicants meeting the necessary requirements may be interviewed.

### **MECHANICAL AND MANUFACTURING ENGINEERING (M.Sc.) ERASMUS MUNDUS**

Awaiting approval from the University Council at the time of going to the printers.

*Postgraduate Coordinator:* Professor Andrew Torrance to whom all enquiries should be directed.

*Telephone:* +353-1-608 1383

*Fax:* +353-1-679 5554

*Academic staff numbers:*

15 full-time academic

*Postgraduate numbers:*

49 research, 10 taught

*Internet:* www.mecheng.tcd.ie/

This course is sponsored by the Erasmus Mundus programme of the EU, and includes half of the options available under the partnership agreement. (see [www.emmme.com](http://www.emmme.com)). It is intended for holders of suitable Engineering or Scientific qualifications who wish to acquire Engineering degrees recognised in two member states of the European Union. It is tailored primarily for students from outside the EU, who may apply for scholarships to cover their fees and living expenses. Students from within the EU may also enrol, but are not eligible for scholarships. To comply with EU rules, students holding Irish third level qualifications should not enrol for the options described here, but for the options run entirely by the other partners.

The course is spread over two calendar years from the beginning of October, and requires full-time study. The first year is spent in Trinity College, and the second in one of the partner institutions: the INSA de Lyon and the Escola Tècnica Superior d'Enginyeria Industrial de Barcelona (E.T.S.E.I.B). To qualify for the award of the degree, students must pass the appropriate course modules offered by the partner institutions. The language of instruction for these courses is the language of the country.

In Trinity College, in the first year, the following courses are taken by all students: Management for Engineers, Mechanics of Solids and Materials, Thermodynamics and Heat Transfer, Manufacturing Technology and Systems, Control, Vibration and Acoustics; Students then take one subject from the following three options: Fluid Mechanics, Biomechanics, Tribology; Students must also submit an original dissertation of around 30,000 words.

If applicants choose the E.T.S.E.I.B., they will take the following compulsory modules: Diseño de máquinas II, Tecnologías de fabricación II, Fabricación asistida por ordenador, Tecnología energética, Simulación de sistemas mecánicos I, Proyectos. Students will also take one further module from the following group of options: Fabricación flexible, Ensayo de máquinas, Ingeniería de producto y sistemas técnicos II.

If applicants choose the I.N.S.A., they will take the following compulsory modules: Heat Engines and Practical Works THERTP51; CAM and Practical Works PRODTP51; Advanced Automatic Control and Practical Works AUTOTP41; Project, Statistics, Discrete Events System and Practical Works AUTOTP41; Practical Works Vibrations of Continuous Structure; Industrial Acoustics; Finite Element Method; and

Structural Analysis. Students will also take one further module from the following group of options: Noise of Mechanical Systems; Numerical Modelling of Mechanical Systems; and Automation Engineering.

Applications, including applications for scholarships, are made in the first instance to the coordinating partner by 28th February in the year in which admission is sought:

INSA LYON  
Direction de la Scolarité  
20, avenue Albert Einstein  
69621 Villeurbanne cedex (France)

Late applications for places (but not scholarships) may be considered subject to availability.

### **MULTIMEDIA SYSTEMS (M.Sc.)**

COURSE CODE 263

*Course Director:*

Professor Marie Redmond

*Duration:* One year, full-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2704

*Email:* marie.redmond@tcd.ie

*Internet:* [www.cs.tcd.ie/courses/mscmm](http://www.cs.tcd.ie/courses/mscmm)

This M.Sc. course provides a foundation in all the technologies and media relevant to the digital media sector. It runs full-time over a twelve-month period. Formal teaching is divided into two twelve-week semesters. Between six and eight lecture courses are given each semester.

Each student selects and commences a research project, which must be submitted in the form of a dissertation of 12,000 words by the end of April. They will also complete a final project, which can be a collaborative development with a number of students from the class and will be exhibited in a public area in late September. There is significant emphasis on theory rather than on media and software applications. A special laboratory is available to the students of this M.Sc. programme in order to become familiar with multimedia applications.



The courses include: introduction to computers; interactive authoring; technology and culture; Java programming; wearable computers; aesthetic design; video capture and editing; MIDI technologies; HTML/XML workshop; interactive design; interactive narrative; information architecture; image processing; client and server technologies; legal issues in digital publishing; and project management.

This course is especially appropriate to graduates either with a primary degree in Humanities or in Computer Science, as both disciplines are important to the digital media sector. Applications will be accepted from good honors graduates in any discipline or from mature students with relevant industry experience.

## M.Phil. COURSES

### MUSIC AND MEDIA TECHNOLOGIES (P.Grad.Dip./M.Phil.)

COURSE CODES 260/257

For more information, see entry in Arts (Humanities).

## POSTGRADUATE DIPLOMAS

Some Masters courses have the option of a Postgraduate Diploma in cases where the taught course has been satisfactorily completed but a

dissertation has not been submitted. Such P.Grad.Dip. courses are not listed below as they are not open to entry as separate options from their parent Masters course i.e. students apply for entry to the appropriate Masters course.

Some diploma courses may not be offered if, for example, the number of applicants is insufficient or adequate resources are not available.

### APPLIED BUILDING REPAIR CONSERVATION (P.Grad.Dip.)

COURSE CODE 706

*Course Director:* Dr Sara Pavia

*Duration:* One year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Ms Debbie Walsh, Engineering Studies, O'Reilly Institute, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2516/1457

*Email:* pavia@tcd.ie

This is a one-year postgraduate course designed to provide civil engineers and other suitably qualified professionals with a good understanding of materials and built fabrics, both modern and traditional; the causes and mechanisms of weathering and corrosion; and the traditional as well as the most advanced ways to repair and preserve them.

The Diploma will comprise lectures and a research project as well as site visits

and laboratories. These will take place on Friday evenings and Saturday mornings throughout the three teaching terms (October to May). Two three-hour examination papers will be held in May/June. All three components, course work, project and examination must be passed.

### COMPUTER SCIENCE (UBIQUITOUS COMPUTING) (M.Sc./P.Grad.Dip.)

COURSE CODE 702/703

*Course Director:* Professor Vinny Cahill

*Duration:* P.Grad.Dip – one year full-time; M.Sc. – one year full-time

*Closing Date:* 30 April 2005.

Applications must be addressed to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3094

*Email:* mscubicom-infol@cs.tcd.ie

*Internet:* [www.cs.tcd.ie/courses/mscubicom/](http://www.cs.tcd.ie/courses/mscubicom/)

In the ubiquitous computing vision, interconnected computers are embedded unobtrusively in everyday appliances and environments and co-operate to provide information and services on behalf of their human users. This emerging field is likely to drive the deployment of the next generation of Information Technology and has been an active research area at Trinity College

Dublin in recent years. The Ubiquitous Computing programme provides a comprehensive grounding in advanced distributed systems engineering together with an in-depth understanding of the technologies and development strategies used in building wireless and ubiquitous computing systems.

Topics include:

- Communications technologies including wireless mobile networking
- Devices and systems
- Middleware
- Software engineering and applications development
- Real time and embedded systems
- Sensors and vision
- Information architecture
- Product and environmental design
- Image processing and synthesis

This programme is open to graduates who have achieved the equivalent of at least an upper second-class honors degree, or better, in computing, information technology, or a related discipline, humanities or a creative discipline such as fine art, design, literature, film or drama. Consideration will also be given to mature students with relevant industrial experience.

## **CONSTRUCTION LAW AND CONTRACT ADMINISTRATION (P.Grad.Dip.)**

COURSE CODE 614

*Course Director:* Mr Brian Bromwich

*Duration:* One year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Ms Debbie Walsh, Engineering Studies, O'Reilly Institute, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1302

*Email:* bromwib@tcd.ie

*Internet:* [www.tcd.ie/Civil\\_engineering/courses/diploma/construction.htm](http://www.tcd.ie/Civil_engineering/courses/diploma/construction.htm)

This is a one-year postgraduate course to enable graduate engineers and other suitably qualified professionals (such as architects and quantity surveyors), to obtain knowledge of construction law equivalent to that required by a competent arbitrator, adjudicator or administrator.

The topics covered include an introduction to the Irish legal system; the Irish litigation process; relations of law and construction; EU law and private international law; statutory duties and construction projects; and methods of dispute resolution. Lectures are normally held on Friday evening and Saturday morning each week throughout the three teaching terms.

## **ENVIRONMENTAL ENGINEERING (P.Grad.Dip.)**

COURSE CODE 201

*Course Director:* Mr Paul Johnston

*Duration:* One year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Ms Debbie Walsh, Engineering Studies, O'Reilly Institute, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1372/1457

*Email:* pjhnston@tcd.ie

*Internet:* [www.tcd.ie/Civil\\_engineering/courses/diploma/environmental.htm](http://www.tcd.ie/Civil_engineering/courses/diploma/environmental.htm)

This is a one-year postgraduate course designed to provide civil engineers and other suitably qualified professionals with a sound knowledge of present day theories and practices in environmental engineering. The course has been developed to have special relevance to the work of the Local Authority and State Sector engineers.

Amongst the topics covered are: air quality; noise; water and wastewater treatment; solid and toxic waste; water quality monitoring and control; development of contaminated land; radiation in the environment; and environmental control for water-borne diseases. Environmental impact assessments/studies and legal aspects are also included. Lectures are normally held on Friday evening and Saturday morning each week throughout the three teaching terms.



**FIRE SAFETY PRACTICE  
(BUILDINGS AND OTHER  
STRUCTURES) (P.Grad.Dip.)**

COURSE CODE 637

*Course Director:* Dr Trevor L.L. Orr

*Duration:* One year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Ms Debbie Walsh, Engineering Studies, O'Reilly Institute, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1204

*Email:* torr@tcd.ie

*Internet:* [www.tcd.ie/Civil\\_engineering/courses/diplom/fire.htm](http://www.tcd.ie/Civil_engineering/courses/diplom/fire.htm)

This is a one-year postgraduate diploma course designed to enable engineers, architects, fire safety officers and other suitably qualified professionals to obtain a thorough knowledge and understanding of fire in buildings, the safety requirements in the design of buildings and the various options available for minimising the risk of fire in buildings.

Among the topics covered are: the fundamentals of fire science; fire engineering; structural design code requirements; fire control systems; legal and insurance aspects; the legislative environment; fire safety management; and the preparation of fire safety certificates. Lectures are normally held on Friday evening and Saturday morning each week throughout the three teaching terms.

**HEALTH AND SAFETY IN  
CONSTRUCTION (P.Grad.Dip.)**

COURSE CODE 705

*Course Director:* Mr Brian Bromwich

*Duration:* One year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Ms Debbie Walsh, Engineering Studies, O'Reilly Institute, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1302/1457

*Email:* bromwicb@tcd.ie

*Internet:* [www.tcd.ie/Civil\\_Engineering/courses/diploma/](http://www.tcd.ie/Civil_Engineering/courses/diploma/)

This is a one-year postgraduate course designed to provide civil engineers and other construction professionals with the knowledge necessary to perform the roles of Project Supervisor and Site Safety Representative and carry out Health and Safety Training in accordance with current legislation.

Course modules include: health and safety legislation; construction regulations; FÁS Safe Pass health and safety training; health and safety management; risk assessment; COSSH regulations; first aid; disease and injury; environmental impact assessment. Lectures are held on Friday evenings and Saturday mornings each week throughout the three teaching terms (October to May).

**HEALTH INFORMATICS  
(P.Grad.Dip/M.Sc.)**

COURSE CODES 617/616

(with Health Sciences)

*Course Coordinator:* Ms Gaye Stephens

*Duration:* P.Grad.Dip.: one year, part-time; M.Sc.: one additional year

*Closing Date:* 30 June 2005.

Applications must be addressed to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Internet:* [www.cs.tcd.ie/chi/](http://www.cs.tcd.ie/chi/)

Health Sciences and Engineering and Systems Sciences offer a joint programme in Health Informatics. Health Informatics is broadly concerned with the application of Information Technology in the health sector. It is a truly interdisciplinary field in which medicine, computer science, management science, statistics and engineering are all represented.

The main aim of the programme is to give students a broad understanding of both the principles underlying the field of health informatics and of its practical applications. The course is intended for suitably qualified applicants currently working or aspiring to work in a position in the health sector which requires the efficient and cost effective application of information technology.

The Postgraduate Diploma will be run over one academic year (October – June) on a part-time basis, on Friday afternoons and Saturday mornings to facilitate those in full-time employment. The M.Sc. extends for one further year.

The Diploma incorporates both taught and practical components with a strong emphasis on practical team-based continuous assessment. M.Sc. students receive instruction in research methodology and undertake an independent research project.

Students take a total of six modules covering the following topics: introduction to health informatics; introduction to computing (for those from a health science background); introduction to health sciences (for those from a computing background); health information systems; telemedicine; knowledge-based and decision support systems; medical imaging; multimedia systems; and statistics.

Not all modules will be offered each year; insofar as it is feasible, the range available will be adapted each year to suit the interests and skills of the particular cohort of students.

Applications may be accepted from those who hold a good honors degree in a professional health sciences or computer engineering discipline, or hold an equivalent qualification with

relevant professional experience, or hold other appropriate qualifications with at least three years relevant professional experience, or otherwise satisfy the course admission committee. Applicants meeting these requirements will be interviewed.

### **HIGHWAY AND GEOTECHNICAL ENGINEERING (P.Grad.Dip.)**

COURSE CODE 186

*Course Director:* Dr Eric Farrell

*Duration:* One-year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Ms Debbie Walsh, Engineering Studies, O'Reilly Institute, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1146

*Email:* efarrell@tcd.ie

*Internet:* [www.tcd.ie/Civil\\_engineering/courses/diploma/highway.htm](http://www.tcd.ie/Civil_engineering/courses/diploma/highway.htm)

This is a one-year postgraduate course to enable graduate engineers to obtain a sound knowledge of important aspects of highway and geotechnical engineering. In particular, the course is suitable for engineers involved in the provision, maintenance and operation of highways, but it is open to all those holding a degree or equivalent in civil engineering or any other relevant branch of engineering.

The topics covered include: economic aspects of highway planning and programming; structural and geometric design; earthworks; laboratory testing; bearing capacity; embankments on soft soils; ground improvement methods; maintenance and rehabilitation; traffic management; and construction management with particular reference to cost control and quality assurance. Lectures are normally held on Friday evening and Saturday morning each week throughout the three teaching terms.

### **PHYSICAL PLANNING (P.Grad.Dip.)**

COURSE CODE 210

*Course Director:* Dr Trevor L.L. Orr

*Duration:* One year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Ms Debbie Walsh, Engineering Studies, O'Reilly Institute, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1204

*Email:* torr@tcd.ie

*Internet:* [www.tcd.ie/Civil\\_engineering/courses/diploma/physical.htm](http://www.tcd.ie/Civil_engineering/courses/diploma/physical.htm)

This is a one-year postgraduate course designed to provide graduate engineers and other suitably qualified graduates with a sound basic knowledge and awareness of the role of all professional bodies involved in planning the physical infrastructure. In particular this course is

suitable for civil engineers in local authorities, planning offices and consultancies, but is open to all those holding other relevant qualifications.

The topics covered include: planning theory and practice; legal aspects and planning legislation; rural and urban planning; economic planning; transportation and land use planning; environmental aspects including environmental impact assessments and studies; geographical information systems; sociology and psychology in planning. Lectures are normally held on Friday evening and Saturday morning each week throughout the three teaching terms.

### **PROJECT MANAGEMENT (P.Grad.Dip.)**

COURSE CODE 136

*Course Director:* Dr Trevor L.L. Orr

*Duration:* One year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Ms Debbie Walsh, Engineering Studies, O'Reilly Institute, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1204

*Email:* torr@tcd.ie

*Internet:*

[www2.tcd.ie/Civil\\_engineering/courses/diploma/project.htm](http://www2.tcd.ie/Civil_engineering/courses/diploma/project.htm)

This is a one-year postgraduate course designed to provide graduate engineers and other suitably qualified graduates with a sound knowledge and understanding of all aspects of project management in civil engineering and construction.

The topics covered include: project planning and control; legal aspects; contracts and tendering procedures; the computer in project control; project accounting and cost control; industrial relations; human resources management and motivation; health and safety; insurance and claims. Lectures are normally held on Friday evening and Saturday morning each week throughout the three teaching terms.

### **QUALITY IMPROVEMENT (P.Grad.Dip.)**

COURSE CODE 277

*Course Coordinator:* Dr Michael Stuart

*Duration:* One year, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Dr Michael Stuart, Department of Statistics, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1768

*Email:* [Diploma.QI@tcd.ie](mailto:Diploma.QI@tcd.ie)

*Internet:* [www.tcd.ie/Statistics/courses/diploma/qualintro.shtml](http://www.tcd.ie/Statistics/courses/diploma/qualintro.shtml)

This is a part-time course leading to the Postgraduate Diploma in Quality Improvement. The principal focus of the course is on the development of analytical skills for problem solving and quality improvement in an industrial environment. The statistical ideas and methods which provide the foundation for the analytical skills are developed in the management context in which the problems arise. The quality management systems that support modern industrial management are formally developed both at a theoretical and a practical level.

The course is intended for graduates working in industry who want to develop and deepen their knowledge of statistical methods for product and process improvement, while receiving an introduction to modern quality management systems. While some participants from service industries have taken the course, the focus is very much on manufacturing. Applications will be considered from degree level graduates, preferably with industrial experience. While the mathematical level is kept to a minimum, some background in mathematics is essential.

The intention is to provide participants with a practical grasp of quality improvement methods based on a sound knowledge of the underlying ideas and concepts. Graduates of the

course should be well placed to adapt the ideas and methods to which they have been introduced for use in their own work. To this end, all the material is presented in the context of practical examples from a wide range of industries. In particular, the emphasis within the statistical material is on statistical thinking rather than mathematical techniques.

The statistical content is presented in two courses: Statistical Process Improvement and Industrial Experimentation, with lectures, seminars and supporting computer laboratory exercises. Quality management is presented through courses of lectures from two leading practitioners, supplemented by a series of case studies mainly given by graduates of the course who have moved into senior management positions.

Lectures are given for two hours on each of two evenings per week during lecture term for one year. Software laboratories and tutorials are conducted on Saturday mornings. Students are required to prepare a report on a practical project during the summer months, ideally, projects will be related to students' normal work.

## **STATISTICS (P.Grad.Dip.)**

COURSE CODE 129

*Course Coordinator:* Dr Myra O'Regan

*Duration:* One/two years, part-time

*Closing Date:* 31 July 2005\* Applications must be addressed to Dr Myra O'Regan, Department of Statistics, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1768

*Email:* [Diploma.Stats@tcd.ie](mailto:Diploma.Stats@tcd.ie)

*Internet:* [www.tcd.ie/Statistics/diploma/](http://www.tcd.ie/Statistics/diploma/)

This is a part-time modular course leading to the Postgraduate Diploma in Statistics. The course provides a broad introduction to the statistical ideas and methods relevant to data gathering and analysis in a wide variety of research areas as well as business and administration. The intention is to provide participants with a practical grasp of statistics based on a sound knowledge of the underlying ideas and concepts. Graduates of the course should be well placed to apply the ideas and methods to which they have been introduced in their own work. To this end, all the material is presented in the context of practical examples from a wide range of applications.

The course covers most of the usual topics included in any of the standard elementary texts. In dealing with these, however, more emphasis than is usual in

such textbooks is placed on the idea of an underlying statistical model. It is hoped that this emphasis will develop insight into the essential unity of the methods and avoid the all-too-common impression of there being a cookbook full of different statistical recipes for every possible occasion.

The closing date is 31 July. However, as the course fills up quickly, it is advisable to apply early in the year. Applications may be made at any time throughout the year.

## **NOTE**

\*The closing date for applications for the courses in this section is 31 July of the proposed year of entry. In most cases applications are considered as they are received therefore early application is recommended. Late applications may be considered if places remain available after the closing date





# Health Sciences

# Health Sciences

*Academic Staff Contact for Research:*  
Professor Dermot Kelleher

*Academic Staff Contact for Taught Programmes:* Dr Frederick Falkiner

*Telephone:* +353-1-608 1476

*Fax:* +353-1-671 3956

*Email:* [fmcnamar@tcd.ie](mailto:fmcnamar@tcd.ie)

*Internet:* [www.tcd.ie/Health\\_Sciences/](http://www.tcd.ie/Health_Sciences/)

Health Sciences is comprised of various areas, which provide professionally accredited education and training for a wide range of health professions: Clinical Speech and Language, Dental Science, Medicine, Nursing, Occupational Therapy, Physiotherapy, Therapeutic Radiography as well as a unit in Dietetics in Clinical Medicine. A strong multi-professional ethos encourages mutual respect and understanding between professionals and the sharing of knowledge and skills facilitates efficient teamwork and develops healthy professional relationships.

There is a wide range of taught postgraduate courses at diploma and Masters level. Some, such as the M.Sc. courses in Occupational Therapy, Nursing and Midwifery, lead directly on from the related undergraduate

programmes, while others, such as the M.Sc. courses in Physical Sciences in Medicine, in Health Services Management or in Molecular Pathology, provide for the higher training needs of other health professions. Many are delivered in a part-time format to allow students to continue in their place of employment while some may also be taken as full-time courses.

Recently the College has, in collaboration with its two major teaching hospitals, established the Haughton Institute for postgraduate education and research in the health sciences. Its aim is to bring together the expertise and facilities of the College and its teaching hospitals in order to focus them on education and research, and develop appropriate facilities.

There are major teaching and research facilities at the Trinity Centre at St. James's Hospital and at the Adelaide and Meath Hospital, incorporating the National Children's Hospital at Tallaght. By developing academic facilities at these hospitals and providing a structure for cooperation it is possible to support a wide range of academic activity and to utilise fully its clinical and intellectual resources.

Applicants can apply for research places to work towards the degrees of M.Sc. and Ph.D. by research, either on a full-time or part-time basis. Such students will be assigned a supervisor who will be a designated member of the College staff and will prepare a thesis on the chosen topic. In addition, there are four higher professional degrees, M.A.O., M.Ch., M.D. and M.Dent.Sc.

The area of Health Sciences has active research programmes – scientific, clinical and professional. The fact that most staff members are also active clinicians fosters close links between clinical work and research. This ensures that the continuing relevance of research to clinical practice is not lost.



**ANATOMY**

*Academic Staff Contact:* Mr Paul Glacken

*Telephone:* +353-1-608 1182

*Fax:* +353-1-679 0119

*Academic staff numbers:* 9

*Postgraduate numbers:*

5 research, 4 taught

*Email:* anatomy@tcd.ie

*Internet:* www.tcd.ie/Anatomy/

The main research interests of this discipline lie in applied anatomy, sports medicine, osteoporosis and anthropological anatomy.

Research in applied anatomy is primarily directed towards the detailed study of the anatomy involved in various surgical procedures such as pericardiocentesis and arthroscopy, and forms the basis of the M.Sc. in Anatomy.

The Human Performance Laboratory (HPL), conjointly administered with Physiology, contains a variety of medical and physiological equipment for monitoring athletic performance. The HPL is a major resource for the M.Sc. course in Sports Medicine; it also contributes to the Sports Council-funded sports science and medical support network for Player Athlete Card for Excellence (PACE).

Research in osteoporosis is supported by a clinic with full facilities for patient assessment including bone densitometry. The staff are also involved in the study of prehistoric human remains from a variety of sources in Ireland.

**CLINICAL MEDICINE**

*Academic Staff Contact:*

Professor Dermot Kelleher

*Telephone:* +353-1-608 2100

*Fax:* +353-1-454 2043

*Academic staff numbers:*

11 full-time, 44 part-time

*Postgraduate numbers:*

45 research, 105 taught

*Internet:* www.tcd.ie/Clinical\_Medicine/

Clinical Medicine is the largest research and clinical area in Health Sciences. Its principal administrative unit is located in the Trinity Centre for Health Sciences at St. James's Hospital and there is also an academic medical unit at the Adelaide and Meath Hospital, incorporating the National Children's Hospital at Tallaght.

The area spans a range of specialities within medicine (cardiology, gastroenterology, gerontology, haematology, nephrology, neurology, oncology, palliative care, respiratory medicine) and some affiliated to medicine (medical physics and

bioengineering, nutrition). There is also a Centre for Medical Gerontology and a Unit of Nutrition and Dietetic Studies.

A wide variety of research includes laboratory-based scientific studies, metabolic observations using healthy volunteers, clinical research in hospital patients and epidemiological work. Some of the major research directions are organised into groups as follows: Medicine for the Elderly; Cell Signalling; Chronic Inflammatory Bowel Disease; Clinical Nutrition; Coeliac Disease; Folate and Vitamin B12; Helicobacter Pylori Immunology; Helicobacter Pylori Mucosal Interaction; Hepatitis C Research; Adhesion Molecules in Cardiovascular Disease; Homocysteine and Cardiovascular Disease; Lipid Metabolism; 'Medical Fitness to Drive'; Non-Ulcer Dyspepsia; Medical Physics and Bioengineering.

Research groups are based in the Trinity Centre for Health Sciences, the Sir Patrick Dun's Research Laboratory, the Mercer's Institute for Research in the Aged at St. James's Hospital, and the Adelaide and Meath Hospital, Dublin, incorporating the National Children's Hospital at Tallaght.

Research funding has been obtained from national, international and commercial sources. Sponsors include the National Institutes of Health (USA),

the EU, the Wellcome Trust, Cancer Research Advancement Board, the Health Research Board of Ireland, IPP Medical Trust and a variety of industrial, pharmaceutical and nutritional companies. The staff are actively participating in the Eurolife network of European universities, which comprises Edinburgh, Karolinska, Leiden, Innsbruck, Goettingen, Montpellier and Trinity College.

Collaborative links exist with colleagues in other research areas in College and in other institutions in Ireland, the UK, continental Europe and the USA.

The Unit of Nutrition and Dietetic Studies has close ties with the Dublin Institute of Technology (D.I.T.). Research activity from this unit has spawned the campus companies Nutriscan Ltd. and the Institute for European Food Studies. Research collaborations with other nutrition departments in Ireland have resulted in the Irish Universities Nutrition Alliance, which is a focus for collaboration in research between Trinity College, University College Cork and the University of Ulster at Coleraine.

In addition there are postgraduate taught courses in Cardiology, Magnetic Resonance Imaging Technology, Molecular Medicine, Physical Sciences in Medicine, Medical Imaging and Clinical Engineering (Equipment Management). Recently funding has been secured to

establish a four year integrated Ph.D. programme in Molecular Medicine, which links with the European Ph.D. programme of Eurolife.

### **CLINICAL MICROBIOLOGY**

*Academic Staff Contact:*

Professor Tom Rogers

*Telephone:* +353-1-608 2138

*Fax:* +353-1-608 2138

*Academic staff numbers:*

2 full-time, 4 part-time

*Postgraduate numbers:*

32 research, 43 taught

*Internet:* [www.tcd.ie/Clinical\\_Microbiology](http://www.tcd.ie/Clinical_Microbiology)

Current research interests in this area include molecular mycology, hospital-acquired infection, its control and prevention; clinical pharmacology of antimicrobial agents with particular reference to the avoidance of toxicity and improved efficacy; respiratory infection in patients with cystic fibrosis and *Helicobacter pylori* infection. All necessary facilities for research into resistance transfer, phenotypic expression in micro-organisms and the investigation of hospital-acquired infection are available.

The staff also jointly run a M.Sc. course in Molecular Pathology with the Dublin Institute of Technology in Kevin Street.

### **CLINICAL SPEECH AND LANGUAGE STUDIES**

*Academic Staff Contact:*

Dr Martine M. Smith

*Telephone:* +353-1-608 1588/1496

*Fax:* +353-1-671 2152

*Academic staff numbers:*

7 full-time, 4 part-time

*Postgraduate numbers:* 9 research

*Internet:* [www.tcd.ie/Clinical\\_Speech](http://www.tcd.ie/Clinical_Speech)

Postgraduate opportunities offered include a postgraduate diploma taught course and a taught M.Sc. course in Dysphagia, and postgraduate programmes by research alone leading to M.Sc., M.Litt., and Ph.D. degrees. The taught courses are designed to provide qualified practitioners with opportunities to advance their academic knowledge and professional practice skills with specialist clinical populations. Students wishing to register for M.Sc. taught courses will build upon professional and practical expertise gained from the courses offered during the first year at postgraduate diploma level, and have research opportunities within their chosen specialist field. Those opting to graduate after the first year will be eligible on successfully completing assignments for a postgraduate diploma. Programmes for higher degrees by research alone will not

necessarily involve a clinical requirement. Graduates from all programmes are expected to promote excellence in their practice settings, and to contribute to the development of the profession's knowledge base.

Research interests of the staff include augmentative and alternative communication systems; clinical linguistics; development of language; fluency; voice; disorders of language (including written language); discourse issues; language and psychiatry; Hiberno-English; sociolinguistics; life-span psychological development; gender issues; programme evaluation.

Analytical and technical facilities include clinical evaluation procedures: video-recording equipment, computer facilities, and a range of technical equipment for analytical and clinical work.

Applications for admission to the M.Sc., M.Litt., or Ph.D. research programmes are invited from graduates holding at least a second-class honors degree. Exceptions may be permitted, particularly for graduates of professional diploma programmes who have relevant experience. On application, prospective students are interviewed to assess the student's suitability and potential as a graduate student, and to consider whether the appropriate supervision is available.

## DENTAL SCIENCE

*Academic Staff Contact:*  
Professor Brian O'Connell

*Telephone:* +353-1-612 7316/7319

*Fax:* +353-1-671 1255

*Academic staff numbers:*  
28 full-time, 60 part-time

*Postgraduate numbers:*  
14 research, 22 taught

*Internet:* [www.global.dental.tcd.ie](http://www.global.dental.tcd.ie)

Dental Science is based in, and closely linked with, the Dublin Dental Hospital. The Hospital completed a programme of extensive refurbishment and expansion in 1998. It is currently expanding its research, postgraduate and office facilities. It has modern clinical facilities and a wide-ranging programme of dental education at undergraduate and postgraduate level as well as an innovative programme of continuing education for dental practitioners.

There are specialist training programmes in Oral Surgery, Orthodontics, Periodontics, Prosthodontics and Paediatric Dentistry, supported by consultant training programmes in most areas of dentistry, and research degrees at Masters and Ph.D. level.

There are training programmes for dental hygienists, dental nurses and dental technicians, and a Postgraduate Diploma course in Clinical Dentistry

aimed at general dental practitioners.

There is an active research output in Oral Surgery, Oral Medicine and Oral Pathology; Public and Child Dental Health; Restorative Dentistry and Periodontology. In recent years, focus has been increasingly on infections associated with HIV and AIDS patients, on fungal diseases, salivary disorders, oral cancer and biofilms – sources of infection in dental water lines, and dental implants. Recently, the staff have developed a collaborative interest in the Trinity Centre for Bioengineering (T.C.B.E.) The staff have also initiated a very strong educational development and research base in collaboration with dental schools in European countries and the USA. Recent senior appointments in Restorative Dentistry, Oral and Maxillo-Facial Surgery and Special Care Dentistry are expected to increase research output and training in these areas.





**HAEMATOLOGY***Academic Staff Contact:*

Professor Shaun McCann

*Telephone:* +353-1-453 7941/2975*Fax:* +353-1-453 0557*Academic staff numbers:* 7*Postgraduate numbers:* 11 research*Internet:* [www.tcd.ie/Haematology/](http://www.tcd.ie/Haematology/)

Trinity College's area of Haematology is the largest of its kind in Ireland actively engaged in clinical and basic research. It includes the National Bone Marrow Transplant Unit, the National Haemophilia Unit, the National Centre for Haemostasis and Thrombosis and Paediatric Haematology. It is located in St. James's Hospital and the newly opened Adelaide and Meath Hospital, incorporating the National Children's Hospital at Tallaght. Research laboratories are located in the Durkan Building, Trinity Centre, St James' Hospital, and are fully equipped for molecular and cellular biology research and form an integral part of the T.C.D. research community.

There is an active research programme in both malignant and non-malignant haematology. Research areas include chimeric status following stem cell transplantation; minimal residual disease detection in leukaemia and cancer; molecular aspects of haemostasis/thrombosis; gene therapy and gene

manipulation in leukaemia, breast and prostate cancer, apoptosis in cancer, the role of protein C in the prevention of meningococcal meningitis, aspects of stem cell manipulation and development of molecular diagnostics. There is a specific interest in non-Hodgkins Lymphoma and Chronic Lymphatic Leukaemia. Current research is aimed at developing prognostic markers in these diseases and evaluating new therapies including reduced intensity allografting. International collaborations with groups in the UK, France, the Netherlands, Germany and Italy have proved highly fruitful. Postgraduate research is actively encouraged in our M.Sc./Ph.D. and M.D. programmes. In addition, staff are closely linked to the taught M.Sc. in Molecular Medicine and there is a short course in Genetics and Molecular Biology in Clinical/Laboratory Medicine.

**HISTOPATHOLOGY AND MORBID ANATOMY***Academic Staff Contact:*

Professor John J O'Leary

*Telephone:* +353-1-608 2471*Fax:* +353-1-454 1929*Academic staff numbers:*

3 full-time, 14 part-time

*Research technicians:* 2 full-time*Postgraduate numbers:* 16 research*Internet:* [www.tcd.ie/Histopathology/](http://www.tcd.ie/Histopathology/)

Research interests include: molecular biomarkers in cervical cancer, foeto-maternal trafficking in pregnancy; proteome patterns in pregnancy and associated disorders; inflammatory bowel disease and receptor analysis in thyroid, breast and prostate tumours; altered gene expression in oesophageal carcinoma and Barrett's mucosa and in papillary thyroid cancer; head and neck tumours and lymphomas. Studies are also being conducted into the role of HIV, HCV, and HHV 8 in liver disease, myeloma and in Kaposi's sarcoma as well as chemotherapy resistance transcriptome pathways in oesophageal, endometrial and ovarian carcinoma, apoptosis in soft tissue sarcomas and immunophenotyping of lymphoma FNA samples. Research topics in oral pathology include aberrant oncogene expression in head and neck tumours, the role of EBV in salivary gland tumours and enamel defects in foetal teeth. Aspects of neuropathology research include neuromuscular disease, degenerative disorders and demyelination in CNS and PNS as well as transcriptome analysis of multiple sclerosis.

The area has excellent equipment including facilities for Quantitative TaqMan PCR (DNA and RT-PCR), in-cell PCR, fluorescent DNA sequencing, automated immunocytochemistry, automated in-situ hybridisation, hybrid capture, flow cytometry, electron microscopy, laser capture microdissection

and DNA chip facilities, including CGH and cDNA array technology and the new 1700 cDNA gene analysis platform from Applera (Celera/Applied Biosystems) and the Affymetrix gene platform and bioanalyser technology. I.T. and imaging equipment is 'state of the art', including robotic artificial intelligence microscopy.

There is excellent access to a large volume and variety of tissues from St. James's Hospital, Tallaght Hospital (AMNCH), the Coombe Women's Hospital and Rotunda Hospital, covering almost all clinical specialties. Major collaborative links exist with industry including Applera (Celera Genomics and Applied Biosystems), Dako-Cytomation, Cytoc Corp, Perkin Elmer Life Sciences, Affymetrix, Digene, VYSIS-Abbott to mention a few.

The staff are currently developing diagnostic and screening biochips/biosensors in cervical, prostate, thyroid and colorectal cancer and have published over 110 papers, in excess of 150 abstracts and two books in the last 2½ years.

### **IMMUNOLOGY**

*Academic Staff Contact:*

Professor Conleth Feighery

*Telephone:* +353-1-608 2541

*Fax:* +353-1-411-3008

*Academic staff numbers:*

1 full-time, 6 part-time

*Postgraduate numbers:* 6 research

*Internet:* [www.tcd.ie/Immunology](http://www.tcd.ie/Immunology)

Immunology research incorporates: investigation into the diagnosis and pathogenesis of autoimmune disorders such as coeliac disease, systemic lupus erythematosus, the anti-phospholipid syndrome, Wegener's granulomatosis; study of primary immunodeficiency syndromes and the role of inflammatory mechanisms in disease states. The area is equipped to perform a wide range of research activities including flow cytometry, cell culture and molecular technology.

### **NURSING AND MIDWIFERY**

*Academic Staff Contact:*

Professor Cecily Begley

*Telephone:* +353-1-608 3979

*Fax:* +353-1-608 3001

*Academic staff numbers:*

50 full-time, 40 part-time

*Postgraduate numbers:*

304 taught, 16 research

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/](http://www.tcd.ie/Nursing_Midwifery/)

The School of Nursing and Midwifery was established in 1996 at a time of great change in nursing education in Ireland. Subsequently a rapid expansion followed to a point where undergraduate and postgraduate programmes are offered in almost all branches of nursing and midwifery. The area has a definite research profile and has formed many national and international links.



There are taught M.Sc. programmes in nursing and in midwifery and an M.Sc. course in Gerontological Nursing, as well as Postgraduate Diplomas in Gerontological Nursing, Professional Nursing and Midwifery Studies.

Postgraduate Diploma programmes are also offered, in partnership with various hospitals, in the following disciplines: midwifery, paediatric nursing, oncology nursing and specialist nursing. Clinical skills laboratories are accommodated in the Trinity College campus at St. James's Hospital and Tallaght Hospital.

The research interests of the staff include: midwifery-led care; the physiology of childbirth; cardiac rehabilitation; midwifery student education; self-esteem and assertiveness in nursing and midwifery students; clinicians' experiences of breaking bad news; palliative care; leadership effectiveness in nursing; quality in education; sociology of development; sociology of health; sociology of medical knowledge and medical technologies; gender and health, especially men's health; gender and reproductive healthcare; curriculum evaluation; assessment strategies for clinical competence; quality indicators in education; the effect of cold on brown adipose tissue metabolism; fitness testing for athletes; spirituality in nursing care; relationships between

student and research supervisor at Masters level; the long-term psychosocial effects of a diagnosis of cancer on the child and family; and the sociology of mental illness and mental health in Ireland.

In partnership with Queen's University Belfast, the staff assist the School of Nursing in Jordan University of Science and Technology to develop two existing M.Sc. programmes and to institute a third. This work is funded by an EU TEMPUS grant. The staff are also working with universities in five countries including Charles and Pardubice Universities in the Czech Republic; Turku and Stadia Polytechnics in Finland; Murcia University in Spain and Dundee and Paisley Universities in Scotland on a study investigating the development of ethical reasoning in student nurses as a care skill. The School has also been granted support by the Leonardo Da Vinci Programme for an exchange project aiming at exploring educational issues relating to the training of professionals to care for people with intellectual disability with Akershus University College in Norway.

## OBSTETRICS AND GYNAECOLOGY

*Academic Staff Contact:*

Professor Brian L. Sheppard

*Telephone:* +353-1-453 1888

*Fax:* +353-1-453 1614

*Academic staff numbers:*

2 full-time, 8 part-time

*Postgraduate numbers:*

4 research, 12 taught

*Internet:* [www.tcd.ie/Obstetrics\\_Gynaecology](http://www.tcd.ie/Obstetrics_Gynaecology)

Obstetrics and Gynaecology has a strong tradition of research relative to female health and pregnancy. Ongoing studies include investigations into uteroplacental haemostatic changes in hypertensive pregnancy and intrauterine growth restriction; blood coagulation and oral contraceptives; mechanisms and treatment of excessive uterine bleeding; cardiovascular risk factors and hormone replacement therapy after the menopause; role of oestrogens in age-related urogenital diseases and gynaecological oncology. The staff are collaborating in this research with universities and industries throughout Europe. Laboratories at the Trinity Centre for Health Sciences at St. James's Hospital are fully equipped with facilities for cell culture immunohistochemistry and

specialised assays of blood coagulation, fibrinolysis and platelet function. Electron Microscopy is available for research and diagnostic procedures. Research staff have long-standing experience in the knowledge and skills required for these studies. Research funding is derived from national, international and commercial sources. This supports research nurses, laboratory assistants and postgraduate research students.

Applications are welcome from postgraduates wishing to undertake the higher degrees of M.A.O., M.D., M.Sc. or Ph.D. in the above areas. In conjunction with the Rotunda Hospital the staff also run the Postgraduate Diploma in Gynaecology and Obstetrics, one of the longest running postgraduate diplomas in College.



## **OCCUPATIONAL THERAPY**

*Academic Staff Contact:*

Ms Deirdre Connolly

*Telephone:* +353-1-608 3210

*Fax:* +353-1-454 6363

*Academic Staff Members:* 9 full-time

*Postgraduate Numbers:*

2 research, 7 taught

*Internet:* [www.tcd.ie/Occupational\\_Therapy/](http://www.tcd.ie/Occupational_Therapy/)

Occupational Therapy is situated at the Trinity Centre for Health Sciences at St. James's Hospital, alongside Physiotherapy, Therapeutic Radiography, and Pharmacology and Therapeutics. The area offers a two-year taught M.Sc. in Occupational Therapy, and welcomes applications from postgraduates wishing to undertake higher degrees of M.Sc (by research alone) or Ph.D.

The expertise of all staff members and indeed that of the wider University community is available to research students. Research interests of the staff include assisting students with special needs to participate in third level education, the role of play in inclusive education, driving and the elderly, human occupation and health, functional aspects and attitudes to health, personal and professional development, physical dysfunction, adult neurology, quality of life and disability, child development, autistic spectrum disorders, sensory integration, social marginalisation and health issues in the criminal justice system.

## **PAEDIATRICS**

*Academic Staff Contact:*

Professor Hilary Hoey

*Secretary:* Ms Meadhbh O'Leary and Ms Sandra Kenny

*Telephone:* +353-1-608 3747/3763

*Fax:* +353-1-462 6593

*Academic Staff Numbers:*

4 full-time, 8 part-time

*Postgraduate numbers:*

6 research students

*Internet:* [www.tcd.ie/faculties/summ\\_hs.html](http://www.tcd.ie/faculties/summ_hs.html)

Paediatrics offers a wide range of postgraduate opportunities. Students may pursue Masters (M.Sc.) or Doctoral

(M.D. or Ph.D.) degrees by research or choose to pursue a full-time taught Masters programme in Paediatrics (M.Sc.). Current research includes: a major international study of metabolic control and quality of life in children and adolescents with Type 1 diabetes; epidemiological studies of Type 1 diabetes in Ireland; growth, psychosocial issues and molecular aspects of Turner Syndrome; growth, cardiac, endocrine, development and psychosocial disorders of Down's Syndrome; studies of obesity and Praeder-Willi syndrome. Other areas of research include: pulmonary function in childhood and adolescence; response to asthma therapy; growth in children with asthma; endocrine management of those with post-bone marrow transplantation; toxocariasis; adolescent medicine; the management of obesity; medical education.

## PHARMACOLOGY AND THERAPEUTICS

*Academic Staff Contact:*

Professor John Feely

*Telephone:* +353-1-608 1563

*Fax:* +353-1-671 3507

*Academic staff numbers:*

6 full-time, 8 part-time

*Postgraduate numbers:* 11 research

*Internet:* [www.tcd.ie/Pharmacology\\_Therapeutics/](http://www.tcd.ie/Pharmacology_Therapeutics/)

Current research areas are: clinical pharmacology; drugs used in cardiovascular including lipid disorders; pharmacoepidemiology and pharmacoeconomics; neurotoxicology; electron donor and acceptor agents in nervous systems; environmental studies on toxicant levels in man and other marker species; rodent control; prostaglandins; cyclic nucleotides and histamine in inflammatory responses; neuropharmacology; electrophysiological studies of chemicals on insect and mammalian central nervous systems; antidepressants; Alzheimer's disease; pharmacy practice and drug information; formulary development; sleep disorders. The area has facilities to perform these research activities, and has installed a mass spectrometer in the Equine Forensic Research Laboratory. Further facilities exist at St. James's Hospital, Dublin.

## PHYSIOLOGY

*Academic Staff Contact:*

Professor Christopher Bell

*Telephone:* +353-1-608 2723

*Fax:* +353-1-679 3545

*Academic staff numbers:*

10 full-time, 4 part-time

*Postgraduate numbers:*

17 research, 14 taught

*Email:* [physiol@tcd.ie](mailto:physiol@tcd.ie)

*Internet:* [www.tcd.ie/Physiology](http://www.tcd.ie/Physiology)

Research interests in Physiology include cellular neuroscience (especially development, plasticity and ageing of the nervous system), exercise physiology (especially skeletal muscle function and metabolic stress, biomechanics and cardiovascular regulation) and hypertension. Further details and a list of recent publications may be found on the website.

The facilities are located on Trinity's main campus and are equipped for molecular biology; light and fluorescence microscopy; confocal imaging; neurochemistry; tissue culture; intracellular ion measurement; electrophysiology; membrane patch-clamping; human biomechanics and electromyography; and analysis of cardiovascular, respiratory and metabolic functions. There are ongoing research collaborations with Anatomy, Biochemistry, Computer Science, Mechanical and Manufacturing Engineering, Pharmacology and Therapeutics and Psychology, providing for joint supervision in appropriate areas. Informal links with staff at both St. James's Hospital and Tallaght Hospital offer opportunities for conjoint postgraduate projects in a range of clinical fields. There is also involvement in development of multimedia teaching aids for medical sciences. Research projects in this area are available for graduates in computer science and informatics.



In addition to the varied opportunities for postgraduate students enrolled for higher degrees by research, there are part-time taught M.Sc. and P.Grad.Dip. courses in Exercise Physiology and a full-time taught M.Sc. course in Mammalian Cell Physiology.

### **PHYSIOTHERAPY**

*Academic Staff Contact:*

Ms Juliette Hussey

*Telephone:* +353-1-608 2110

*Fax:* +353-1-453 1915

*Academic staff numbers:*

8 full-time, 2 clinical

*Postgraduate numbers:*

5 research, 14 taught

*Internet:* [www.tcd.ie/Physiotherapy](http://www.tcd.ie/Physiotherapy)

Physiotherapy is located at the Trinity College campus at St. James's Hospital. In addition to delivering the M.Sc. in Cardiac Rehabilitation, applicants are accepted for the degrees of M.Sc. and Ph.D. by research.

The staff have a growing record in attracting EU research funding in the area of technology and rehabilitation. This research profile provides opportunities for links with established research groups throughout the EU and opportunities for full-time research posts. 'Physiotherapy Research and Older People', a national joint academic and clinical research group co-coordinated by

the staff provides shared opportunities for research into aspects of rehabilitation of older people.

Collaboration with Cardiology and Physiology in the area of exercise in the prevention and treatment of disease has enabled the development of an M.Sc. in Cardiac Rehabilitation. There are many ongoing studies in the area of exercise in the prevention and treatment of disease including identification of cardiovascular risk factors in adults and children and the effect of exercise on risk profiles. Strategies to improve adherence to prescribed exercise and the validation of varying methods of measuring physical activity are also being investigated.

In the area of biomechanics and human movement there are ongoing studies on biomechanical factors related to incidence, prevention and management of low back pain in adult, paediatric and athletic populations. As a result of an ongoing multi-centered trial in the management of whiplash-associated disorder the area has well-established links for those wishing to pursue further work. The area is involved in an interdisciplinary project on 'Ergonomics in Schools' with particular emphasis on the ergonomics of schoolchildren's computer use and the associated health risks. The effects of carrying schoolbags are further areas of research.

Staff research interests are focused on the above areas and also include topics such as moving and handling; assessment of posture in the workplace; outcome measures in physiotherapy; normal range of movement; muscle dysfunction in chronic pain; women's health; paediatric respiratory care and educational /practice/professional issues.

The area has access to the clinical facilities at St. James's Hospital, Dublin and the Adelaide and Meath Hospital, incorporating the National Children's Hospital at Tallaght. There is biofeedback apparatus, an electrogoniometer, a cycle ergometer, a treadmill, and an isokinetic dynamometer and two rowing ergometers.

### **PSYCHIATRY**

*Academic Staff Contact:*

Professor Michael Gill

*Telephone:* +353-1-608 2463

*Fax:* +353-1-679 8865

*Academic staff numbers:*

4 full-time, 10 part-time

*Postgraduate numbers:*

16 research, 23 taught

*Email:* [psychtcd@iol.ie](mailto:psychtcd@iol.ie)

*Internet:* [www.tcd.ie/Psychiatry/](http://www.tcd.ie/Psychiatry/)

Postgraduate registered doctors may apply to the Dublin University Psychiatric Rotational Training Scheme at St. Patrick's Hospital (Dr Jim Lucey,

Programme Director, St. Patrick's Hospital, Dublin 8 Telephone: 2493437 email: duptrp@stpatmail.com) for training in Clinical Psychiatry, in association with the Irish Psychiatric Training Committee. 72 posts are accredited by the Royal College of Psychiatrists. Some places are available for postgraduate experience in psychiatry for intending general practitioners. Trainees move at six monthly intervals to placements with consultants at the services associated with St. James's, St. Patrick's, The Adelaide and Meath Hospital, Dublin, incorporating the National Children's Hospital, Tallaght and Naas Hospital and St. Canice's Hospital, Kilkenny and at special services in child and adolescent psychiatry, forensic psychiatry and learning disabilities. Other speciality experience is available in old age psychiatry, liaison psychiatry and substance abuse, with supervision available in behavioural-cognitive and dynamic psychotherapies.

Research programmes are ongoing in several psychiatric specialities, particularly genetic studies of Bi-polar affective disorder, schizophrenia, autism, attention deficit hyperactivity disorder, Down's syndrome and Alzheimer's disease. Epidemiological studies into psychiatric disorders of old age, autism and affective disorders are in progress, while psychopharmacological and

neuroendocrine studies are often undertaken. Clinical studies have commenced into cognitive-behavioural treatment for social phobia, while research related to the needs for care, quality of life and rehabilitation of patients with long term psychosis is ongoing. Recent grants have been obtained from the Wellcome Trust, EU, NIMH, SFI, the Governors of St. Patrick's Hospital, and the Health Research Board.

Please visit our research website at [www.tcd.ie/Psychiatry/Neuropsychiatry/](http://www.tcd.ie/Psychiatry/Neuropsychiatry/)

The staff can provide a rich and diverse range of clinical experience through its association with a large independent psychiatric hospital, two major general teaching hospitals, four district psychiatric services and four special services. Clinical staff in these institutions hold academic appointments in Trinity College and engage in teaching and research. Close collaboration is maintained with a large number of institutes in Ireland and abroad.

There are three taught postgraduate programmes at Masters level, Cognitive Psychotherapy, Child and Adolescent Analytic Psychotherapy and Psychoanalytic Psychotherapy. Contact details are as follows:

- M.Sc. in Child and Adolescent Analytic Psychotherapy: Dr Mary Smith, 45 Ailesbury Road, Dublin 4.

- M.Sc. in Psychoanalytic Psychotherapy: Ms Nessa Childers, 73 Quinns Road, Shankill, Co. Dublin. email: [www.tcd.ie/psychiatry/psychotherapy](http://www.tcd.ie/psychiatry/psychotherapy), telephone number +353-1-272 2928.

- M.Sc. in Cognitive Psychotherapy: Dr Tony Bates, Jonathan Swift Clinic, St. James's Hospital, Dublin 8.

## **PUBLIC HEALTH AND PRIMARY CARE**

*Academic Staff Contact:*

Professor Thomas O'Dowd

*Telephone:* +353-1-608 1087/2293

*Fax:* +353-1-403 1211/1212

*Academic staff numbers:* 3 full-time, 8 part-time, 100 clinical tutors

*Postgraduate numbers:* 6 research

*Internet:* [www.tcd.ie/Community\\_Health/](http://www.tcd.ie/Community_Health/)

Research interests include drugs, alcohol and tobacco; diabetes; men's health; small area health studies; public health; inequalities in health and health service delivery and/or access.

The facilities are located in the Trinity College Centre for Health Sciences at the Adelaide and Meath Hospital Dublin, incorporating the National Children's Hospital Tallaght, Dublin 24.

**RADIATION THERAPY***Academic Staff Contact:* Mrs Mary Coffey*Telephone:* +353-1-608 3248*Fax:* +353-1-608 3249*Executive Officer:* Mrs Dalene Dougall*Telephone:* +353-1-608 3234*Fax:* +353-1-608 3246*Academic staff numbers:*

5 full-time and 1 part-time

*Internet:* [www.tcd.ie/Radiation\\_Therapy](http://www.tcd.ie/Radiation_Therapy)

Radiation Therapy (previously Therapeutic Radiography) is situated in the Trinity Centre for Health Science, St James's Hospital. It is a key member of the newly formed Academic Unit of Clinical and Molecular Oncology.

The staff have clinical links with the Radiotherapy Departments of St. Luke's Hospital, which is the largest Radiotherapy Department in the country and has recently undergone an extensive refurbishment and upgrading of its facilities; Cork University Hospital which has also undergone a significant refurbishment; St. Vincent's Private Hospital and the Mater Private Hospital. Strong links also exist with Physics in Trinity College and with several international professional organisations.

Research interests are related to the professional background of the staff members and include error reduction, incident or near-incident registration,

radiotherapy treatment planning, palliative care, psychosocial aspects of cancer care, curriculum development and clinical education.

**SURGERY***Academic Staff Contact:*

Professor John Reynolds

*Telephone:* +353-1-453 7479*Fax:* +353-1-454 6534*Academic staff numbers:*

5 full-time, 18 part-time

*Postgraduate numbers:* 3*Internet:* [www.tcd.ie/Surgery/](http://www.tcd.ie/Surgery/)

Surgery is based on the Trinity College campus at St. James's Hospital and at the Adelaide and Meath Hospital Dublin, incorporating the National Children's Hospital at Tallaght. At St. James's, research facilities include two laboratories in the Trinity Centre and facilities in the nearby Sir Patrick Dun's Research Laboratories. The staff also have close associations with the GI Function Unit and Vascular Laboratory in St. James's. The principal focus is on molecular understanding of oesophageal cancer and Barrett's oesophagus, and the prediction of chemosensitivity and chemoresistance in oesophageal adenocarcinoma. The immunology of the gastrointestinal tract, particularly the response to major surgery or trauma, is also an area of

study. At the hospital at Tallaght, research facilities are being developed in gastroenterology, which will include colo-rectal surgery. On the College Green campus there is an animal facility, which is used to develop new surgical techniques and provides courses for surgeons in training. Surgeons in training are encouraged to study for higher degrees (M.D., M.Ch.) by research. A limited number of places are available for basic science graduates to study for a M.Sc. or Ph.D.



## NAMED DEGREE PROGRAMMES

### INTEGRATED DOCTORATE IN MOLECULAR MEDICINE (M.Sc./Ph.D.)

COURSE CODE 729/730

*Programme Coordinator:*

Dr Ross McManus

*Duration:* Four years, full-time

*Closing Date:* 28 February 2005.

Applications and enquiries should be addressed directly to Ms Sheila Walshe, Clinical Medicine, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8, Ireland.

*Telephone:* +353-1-608 3157

*Email:* molec.medic@tcd.ie

*Internet:*

<http://oscar.gen.tcd.ie/molmed/phd> or [www.bioinf.org/molmed/phd](http://www.bioinf.org/molmed/phd)

This programme aims to provide participants with an in-depth understanding of the emerging field of molecular medicine, which draws together developments in molecular and cellular biology to describe disease processes at a functional level – that is, at the level of molecular interactions.

High quality research into the causes of disease relies on a multi-disciplinary approach incorporating a thorough understanding of fundamental processes

of cell biology, genetics and the integration of these processes in the function of the host at cell, tissue and organism levels. Traditionally, the teaching of science has tended to take a specialised disciplinary approach that is increasingly viewed as sub-optimal in explaining disease at the functional level. This programme provides a composite and integrated approach, which incorporates teaching and self-directed learning into the molecular basis of disease combined with a programme of laboratory research incorporating both genetics and cell biology. The concepts underlying molecular medicine are introduced through taught modules, self and group-directed learning and project work, to provide the analytical skills and intellectual tools to analyse the literature and assess and assimilate information.

The course also provides candidates with experience of a wide range of technologies throughout the programme. Candidates may choose from a menu of basic and advanced taught modules in the first year. This ensures that students from specialised undergraduate and clinical degrees can broaden their knowledge base and create an educational platform that provides the concepts necessary to successfully complete a Ph.D. Students are encouraged to interact collectively to maximise information dissemination. The central focus of this research programme

is the interaction of the genome, the proteome and the environment in the causation of human disease.

The programme takes place in the Trinity College Institute of Molecular Medicine (IMM), a state-of-the-art facility dedicated to research into the molecular basis of human disease on St James's Hospital campus. The institute and collaborating partners are equipped to the highest standards with molecular and cell biology technologies including gene mapping transcriptomics, proteomics, real-time imaging and including confocal microscopy and high throughput cell screening, featuring a Cellomics Kineticscan work station – the only one of its kind in academic setting in Europe. The programme is based in the IMM, and brings together world-class scientists from the IMM, the Smurfit Institute of Genetics and the area of Biochemistry in TCD, in a multidisciplinary research environment. The IMM is a component of the prestigious Dublin Molecular Medicine Centre and the EuroLife consortium of leading European universities.

The course consists of a first year comprising taught modules and laboratory rotations. Students are assessed at the end of the first year and must have achieved a satisfactory level in order to progress to the remainder of the programme, which consists of a

three-year laboratory training programme leading to a doctoral degree. This is one of two programmes of its kind in Ireland. It is fully funded over four years by the Health Research Board in Ireland including an annual stipend of €18,000. The programme aims to train scientists to the highest levels internationally in a broad range of disciplines. Intake is limited to six individuals per year with a demonstrated level of excellence and achievement.

Applications are sought from high calibre applicants with backgrounds in biological, medical, dental and pharmaceutical sciences. Applicants from other appropriate backgrounds may also be considered. Applications for this programme should be made in the form of a detailed CV, personal statement and the names of at least two academic referees.



## **INTEGRATED DOCTORATE IN NEUROSCIENCE (M.Sc./Ph.D.)**

COURSE CODE 727/728

Next entry October 2005 – to be confirmed

*Programme Directors:*

Professor Marina Lynch,  
Professor Shane O'Mara

*Programme Coordinator:* Dr Maria Fitzgibbon – all enquiries must be directed to the Course Coordinator

*Duration:* Four years, full-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to Dr Maria Fitzgibbon, TCD Institute of Neuroscience, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2962

*Email:* fitzgimc@tcd.ie

*Internet:* www.neuroscience.tcd.ie

Trinity College Institute of Neuroscience (TCIN) is an interdisciplinary research and teaching institute, which is the focal point for an integrated four-year M.Sc./Ph.D. programme in Neuroscience. The structure of the programme is tailored to ensure a broad, interdisciplinary experience of laboratory techniques, clinical methods and coursework. Research and training is conducted within custom-designed laboratories, interaction spaces, seminar rooms and write-up spaces, in an

explicitly interdisciplinary context, where fundamental, problem-orientated research is conducted in the context of a desire to contribute to human health and welfare. Students initially register for a Masters degree and on successful completion of the academic training requirements, transfer to the Ph.D. register at the end of the first year. Students who do not satisfy the requirements, or for their own reasons choose to do so, may be awarded the degree of M.Sc. in Neuroscience after successfully completing the first year's coursework and achieving a pass mark in the M.Sc. dissertation. The entry to the programme in October 2004 was funded by the Health Research Board as a pilot evaluation of a 4-year Ph.D. programme.

## **PROFESSIONAL HIGHER DEGREE PROGRAMMES**

### **DOCTOR IN MEDICINE (M.D.)**

COURSE CODE 161

Candidates for the M.D. degree must be M.B. graduates (or acceptable equivalent) of at least three years standing. A candidate must either be a graduate of the University of Dublin or have been for at least one year prior to registration a full-time or part-time member of staff of the College, or a formally appointed Research Fellow of the College or a Registrar in one of the



teaching hospitals with which the College has a formal association. Application must be made on the official form, which may be obtained from the Graduate Studies Office.

Work for this degree may be carried out elsewhere than in the College itself save that in the case of candidates who are not graduates of the University of Dublin, the bulk of the research work eventually submitted must be carried out while they are on the staff of the College or Hospital. A thesis for examination must be presented not less than twelve months or not more than five years after the date of registration. Advice to applicants is contained in the document "Doctor in Medicine (M.D.), Guidelines for Candidates".

Applications to the M.D. register must first be assessed for acceptance by the internal Professional Higher Degrees Committee. Distinguished graduates of the University of Dublin may submit a thesis for the degree of M.D., which is based solely on published work relating to a single theme. In such cases the normal regulations concerning admission to the postgraduate register and minimum time between registration and submission will not apply.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

## **MASTER IN OBSTETRICS (M.A.O.)**

COURSE CODE 155

Candidates for the M.A.O. degree must be M.B. graduates (or acceptable equivalent) of at least three years standing. A candidate must either be a graduate of the University of Dublin or have been for at least one year prior to registration a full-time or part-time member of staff of the College, or a formally appointed Research Fellow of the College or a Registrar in one of the teaching hospitals with which the College has a formal association. Application must be made on the official form which may be obtained from the Graduate Studies Office.

Work for this degree may be carried out elsewhere than in the College itself save that in the case of candidates who are not graduates of the University of Dublin, the bulk of the research work eventually submitted must be carried out while they are on the staff of the College or Hospital, as the case may be. A thesis for examination must be presented not less than twelve months or not more than five years after the date of registration. Applications to the M.A.O. register must first be assessed for acceptance by the internal Professional Higher Degrees Committee

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

## **MASTER IN SURGERY (M.Ch.)**

COURSE CODE 156

Candidates for the M.Ch. degree must be M.B. graduates (or acceptable equivalent) of at least three years standing. A candidate must either be a graduate of the University of Dublin or have been for at least one year prior to registration a full-time or part-time member of staff of the College, or a formally appointed Research Fellow of the College or a Registrar in one of the teaching hospitals with which the College has a formal association. Application must be made on the official form, which may be obtained from the Graduate Studies Office.

Work for this degree may be carried out elsewhere than in the College itself save that in the case of candidates who are not graduates of the University of Dublin, the bulk of the research work eventually submitted must be carried out while they are on the staff of the College or Hospital. A thesis for examination must be presented not less than twelve months or not more than five years after the date of registration. Applications to the M.Ch. register must first be assessed for acceptance by the internal Professional Higher Degrees Committee of the

Medical School. Distinguished graduates of the University of Dublin may submit a thesis for the degree of M.Ch., which is based solely on published work relating to a single theme. In such cases the normal regulations concerning admission to the postgraduate register and minimum time between registration and submission will not apply.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

### **MASTER IN DENTAL SCIENCE (M.Dent.Sc.)**

COURSE CODE 153

Candidates for the degree of M.Dent.Sc. must hold the degree of Bachelor in Dental Science of the University of Dublin or the National University of Ireland, having trained at UCD, or hold the Licentiate in Dental Surgery of the Royal College of Surgeons in Ireland, or have been the holder of a primary dental qualification and for at least one year prior to registration have been a full-time or part-time member of staff of the College, or a formally appointed Research Fellow of the College or have held an appointment in one of the teaching hospitals with which College has a formal association.

A candidate who is not a graduate of the University of Dublin (or of the

National University of Ireland or the Royal College of Surgeons in Ireland), must carry out the greater part of the research while on the staff of the College or Dental Hospital. The completed thesis must be presented not less than one year and not more than five years following registration. Application must be made on the official form, which may be obtained from the Graduate Admissions Office.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

### **PROFESSIONAL RESEARCH PROGRAMMES**

#### **MASTER IN DENTAL SURGERY (M.Dent.Ch.)**

##### **Oral Medicine with Oral Pathology (M.Dent.Ch.)**

COURSE CODE 622

*Course Director:* Dr Bernard McCartan

*Duration:* three years, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-612 7261/7314

*Email:* bmcrtan@dental.tcd.ie

*Internet:* <http://global.dental.tcd.ie/Education/>

The postgraduate course in oral medicine prepares the student for the practice of oral medicine at specialist level and provides the student with a working knowledge of oral pathology short of the ability independently to report specimens. The course provides a basis for continuing dental education in later professional life. On completion of the degree the graduate should be competent to teach clinical oral medicine and oral pathology. In addition, the student will attend a core course common to all of the postgraduate clinical dental disciplines. The core course provides a wide postgraduate background in biology, clinical management, epidemiology and statistics and in science related to dentistry. The student will also undertake a research project leading to a thesis. The findings should be suitable for publication in peer reviewed international journals. The division of time is approximately ten percent to the core course, forty percent oral medicine, twenty percent oral pathology, twenty percent management of medically compromised patients and ten percent research. The course leads to the award of Master in Dental Surgery (M.Dent.Ch) and fulfils the criteria for specialist recognition by the Dental Council of Ireland.

**Oral Surgery (M.Dent.Ch.)**

COURSE CODE 622

*Course Director:* Mr David Ryan*Duration:* Three years, full-time*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-612 7207/7314*Internet:* [www.global.dental.tcd.ie/Education](http://www.global.dental.tcd.ie/Education)

The Masters course held over a three year period prepares the student for the practice of oral surgery at specialist level. The course has been developed with the intention of fulfilling the criteria for specialist recognition. On completion of the degree the graduate should be competent in a wide-range of oral surgical procedures. The graduate should also be capable of teaching the practice of oral surgery at postgraduate level. In addition, students will attend a core course common to all of the postgraduate clinical dental disciplines. The core course provides a wide postgraduate background in biology, clinical management, epidemiology and statistics and in science related to dentistry. In the remaining years students will have a wide and varied exposure to the practice of oral surgery (including oral medicine and oral pathology). Students will also undertake

a research project leading to a thesis. The findings should be suitable for publication in peer reviewed international journals. The course leads to the award of Master in Dental Surgery (M.Dent.Ch) and fulfils the criteria for specialist recognition by the Dental Council of Ireland.

**Orthodontics (M.Dent.Ch.)**

COURSE CODE 622

*Course Director:* Dr Paul Dowling*Duration:* Three years, full-time*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-612 7312/7303*Email:* [paul.dowling@dental.tcd.ie](mailto:paul.dowling@dental.tcd.ie)*Internet:* <http://global.dental.tcd.ie/Education>

This taught postgraduate programme provides training for dentists who wish to specialise in orthodontics. The course runs for three years leading to the award of Master in Dental Surgery (M.Dent.Ch.), and fulfils the criteria for specialist recognition by the Dental Council of Ireland. It is the intention of this course to develop students' clinical skills in the light of currently available scientific knowledge. In addition, students attend a core course common to all of the postgraduate clinical dental

disciplines. The core course provides a wide postgraduate background in biology, clinical management, epidemiology and statistics and in science related to dentistry. Students are expected to design, perform and write up a research study leading to a thesis. This research activity should also provide the basis for a refereed publication.

**Paediatric Dentistry (M.Dent.Ch.)**

COURSE CODE 622

*Course Director:* Dr Anne O' Connell*Duration:* Three years, full-time*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-612 7210/7303*Email:* [aconnell@dental.tcd.ie](mailto:aconnell@dental.tcd.ie)*Internet:* <http://global.dental.tcd.ie/Education>

Paediatric dentistry is an age-defined specialty that provides both primary and comprehensive preventive and therapeutic oral health care to children, including those with special needs, from birth to adolescence. The programme is based on the knowledge and expertise gained through clinical practice, research and teaching. The course has been developed with the intention of fulfilling

the criteria for specialist recognition identified by the Dental Council of Ireland. Students attend a core course common to all of the postgraduate clinical dental disciplines, which provides a background in biology, clinical management, epidemiology and statistics and in science related to dentistry. Academic courses related specifically to Paediatric Dentistry occur throughout the programme. Clinical experience is provided in the Dublin Dental Hospital and the associated Paediatric Hospitals. Students are required to complete a research project leading to a thesis, and at least one publication in a peer reviewed international journal. The course leads to the award of Master in Dental Surgery (M.Dent.Ch).

### **Periodontics (M.Dent.Ch.)**

COURSE CODE 622

*Course Director:* Professor Noel Claffey

*Duration:* Three years full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-612 7302/7305

*Email:* nclaffey@dental.tcd.ie

*Internet:* <http://global.dental.tcd.ie/Education>

The course in periodontics has the following clinical emphasis: the management of periodontal conditions and the planning and execution of oral implant therapy. The course includes didactic and clinical components and provides the basis for continuing professional development after completion of the programme. The course has been developed with the intention of fulfilling the criteria for specialist recognition identified by the Dental Council of Ireland. In addition, students attend a core course common to all of the postgraduate clinical dental disciplines. The core course provides a wide postgraduate background in biology, clinical management, epidemiology and statistics and in science related to dentistry. The clinical teaching is based in the scientific literature. The research emphasis centres on assessment of periodontal treatment modalities, regeneration of periodontal tissue components and bone augmentation around implants in areas of deficient bone. Student also undertake a research project leading to a thesis. The findings should be suitable for publication in peer reviewed international journals. The course leads to the award of Master in Dental Surgery (M.Dent.Ch)

### **Prosthodontics (M.Dent.Ch.)**

COURSE CODE 622

*Course Director:* Professor Brian O'Connell

*Duration:* Three years, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-612 7312

*Email:* boconne@tcd.ie

*Internet:* <http://global.dental.tcd.ie/Education>

The postgraduate prosthodontics programme prepares students for the clinical practice of prosthodontics at specialist level and provides the basis for continuing professional development after completion of the programme. The course has been developed to fulfill the criteria for specialist recognition by the Joint Committee for Specialist Training in Dentistry. Approximately sixty per cent of the training programme centres on clinical fixed and removable prosthodontics, management of the edentulous state, and implant dentistry. In addition, students attend a core course common to all of the postgraduate clinical dental disciplines, literature reviews in prosthodontics and clinical case presentations. Each student will also undertake a research project leading to a thesis. The findings should be suitable for publication in peer reviewed international journals. This course leads to the award of Master in Dental Surgery (M.Dent.Ch).

## M.Sc. COURSES

### CARDIAC REHABILITATION (M.Sc.)

COURSE CODE 676

*Course Director:* Dr John Gormley

*Course Coordinator:* Ms Juliette Hussey

*Duration:* Two years, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-608 2121

*Fax:* +353-1-453 1915

*Email:* jmhussey@tcd.ie

This course aims to provide health professionals with an understanding of cardiac rehabilitation, prepare health professionals to provide an effective cardiac rehabilitation service and to objectively evaluate their clinical practice through research.

The course requires attendance on a part-time basis over two years. In year one students normally attend three days per month during academic term. In addition a four-week block of practical experience (138 hours) is timetabled to

occur at the end of the Trinity term in year one and the start of year two.

In year two the dissertation is undertaken, which involves regular meetings between the student and supervisor.

The course is intended for those currently working in or about to develop cardiac rehabilitation programmes either within Cardiology Departments or Primary Care units. Candidates suitable for entry to the course will be recognised health care professionals, e.g. Chartered Physiotherapists, Bord Altranais Physicians.

### CARDIOLOGY (M.Sc.)

COURSE CODE 223

*Course Coordinator:* Dr Niall Mulvihill

*Email:* mulvihn@tcd.ie

*Course Secretary:* Ms Teresa Lawlor

*Email:* tmlawlor@tcd.ie

*Telephone:* +353-1-416 2981

*Duration:* Two years full-time, three years part-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Internet:* [www.tcd.ie/Clinical\\_Medicine/courses/cmpgc1.html](http://www.tcd.ie/Clinical_Medicine/courses/cmpgc1.html)

This course is two to three years, depending on experience, and is designed to provide a high level of postgraduate training for doctors wishing to become trained in non-invasive and invasive cardiology. Applicants will have a M.R.C.P.I. or equivalent qualification.

The course aims to provide the theoretical knowledge, technical skills and research skills necessary to run a comprehensive cardiac service. It consists of lectures, clinically supervised practical procedures in the management of the cardiac patient, and a research project or dissertation. The course is assessed by examination, continual assessment and assessment of the research project or dissertation.

### CHILD AND ADOLESCENT PSYCHOANALYTIC PSYCHOTHERAPY (M.Sc.)

COURSE CODE 224

*Course Directors:*

Professor Michael Fitzgerald,  
Dr Mary Smith

*Duration:* Three years, part-time

*Closing Date:* 31 March 2005.

Applications should be addressed



directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-626 7512/269 3883

*Internet:* [www.tcd.ie/Psychiatry/postgrad.htm](http://www.tcd.ie/Psychiatry/postgrad.htm)

The aim of this course is to provide in-depth training to mental health professionals working with emotionally and behaviourally disturbed children and adolescents.

The course is part-time over three years and has an intake every three years. There are four components: lectures/seminars one day per week for the academic year; supervised treatment of children and adolescents; observation of normal infant at home weekly for two years; and personal psychotherapy.

Assessment is based on evaluation by case supervisor, written examination, infant observation paper, dissertation and viva voce.

### **CLINICAL SPEECH AND LANGUAGE STUDIES (DYSPHAGIA) (M.Sc./P.Grad.Dip.)**

COURSE CODES 723/722

*Course Director:* Dr Margaret Walshe to whom all enquiries should be directed.

*Duration:* One year, part-time (P.Grad.Dip.); two years, part-time (M.Sc.)

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

Late applications may be considered subject to the availability of places. Entry both via P.Grad.Dip. and M.Sc. For further details contact the course director at [walsHEMA@tcd.ie](mailto:walsHEMA@tcd.ie).

### **COGNITIVE PSYCHOTHERAPY (M.Sc./P.Grad.Dip.)**

COURSE CODES 609/612

Entry via P.Grad.Dip. For details see course description in the Diploma section below.

### **EXERCISE PHYSIOLOGY (M.Sc./P.Grad.Dip.)**

COURSE CODES 253/600

Entry via P.Grad.Dip. For details see course description in the Diploma section below.

### **GERONTOLOGICAL NURSING (M.Sc.)**

COURSE CODE 241

*Course Coordinator:*

Ms Marie Therese Cooney

*Duration:* Two years, part-time, one year, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3021

*Fax:* +353-1-473 2984

*Email:* [mtcooney@stjames.ie](mailto:mtcooney@stjames.ie)

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/courses/postgrad/mscgrntlgy.html](http://www.tcd.ie/Nursing_Midwifery/courses/postgrad/mscgrntlgy.html)

The aim of this course is to strengthen and develop the knowledge, skills and attitudes of nurses caring for the older adult. The course provides an advanced grounding in methods of research, in addition to developing the theoretical and practical aspects of management, clinical practice and education in gerontological nursing. This is a taught Masters programme with a major dissertation. The programme commences with one full study week followed by one to two study days per week or the equivalent throughout the academic year. A combination of assessment strategies is used to evaluate the learning outcomes for the programme. A research dissertation will also have to be completed.

Candidates for the course will be registered as a nurse with An Bord Altranais, or eligible for such registration, and will have a minimum of two years full-time or equivalent recent clinical nursing practice since first registration and hold the Postgraduate Diploma course in Gerontological Nursing or equivalent. Applicants without these qualifications must satisfy the course committee that they have the ability to complete and benefit from the course.

### **GLOBAL HEALTH (M.Sc.)**

*Course Coordinator:* Professor Charles Normand, Professor Malcolm MacLachlan

*Duration:* One year full-time

*Closing Date:* 31 May 2005. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557

*Email:* omahoned@tcd.ie

*Email:* charles.normand@tcd.ie

*Telephone:* +353-1-608 3075

*Internet:* [www.tcd.ie/Clinical\\_Medicine/courses/cmpgc1.html](http://www.tcd.ie/Clinical_Medicine/courses/cmpgc1.html)

M.Sc. in Global Health aims to address health problems that transcend national boundaries, may be influenced by

circumstances and experiences in other countries, and are best addressed by co-operative actions and solutions. The underlying assumption is that the world's health problems are shared problems and are therefore best tackled by shared solutions. The course is run in the interdisciplinary area of Health Sciences and Psychology.

The course builds on the past experiences of the Masters in Public Health/International Health. It aims to attract applicants from a wide range of disciplines and professions who wish to develop an understanding of health issues that integrate health and social science perspective in a global context. Within this programme, practitioners, planners, managers and analysts are encouraged to critically reflect on the interplay between global and local issues and their impact on health. Taking cognisance of the programme's location in Ireland the course emphasises some of the Irish "local" experience that resonates globally. This includes the influence of poverty and the rapid social changes on health and identity in Ireland; migration and refugee welfare, the consequences of ethnic conflict, the peace process and the challenges of reconciliation for creating inclusive health services. The strongest emphasis within the course is however on health in developing countries. While this incorporates some

aspects of the previous International Health programme there is an additional stronger emphasis on the influence of socio-cultural, economic and health policy issues. Students are provided with a greater appreciation of the global interconnectedness of health problems and the range and depth of research methodology that can be used to work through these challenges.

### **HEALTH INFORMATICS (M.Sc./P.Grad.Dip.)**

COURSE CODES 617/616

(See entry in Engineering Sciences and Systems)

### **HEALTH SERVICES MANAGEMENT (M.Sc.)**

COURSE CODE 254

*Course Director:* Ms Eilish McAuliffe

*Course Administrator:*  
Donna Carter-Leay

*Course Coordinator:* Ms Mandy Lee

*Duration:* two years, part-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-608 2201/3986

*Fax:* +353-1-677 4956

*Email:* hsmsec@tcd.ie

*Internet:* [www.tcd.ie/Health\\_Sciences/hsm.php](http://www.tcd.ie/Health_Sciences/hsm.php)

This course prepares students for middle and senior management positions in the health services. It is intended for suitably qualified applicants currently working in positions with planning or management responsibility in health service organisations. The course is multidisciplinary and open to all professions. The course harnesses the core values of commitment, caring and cooperation in professional clinical practice with management principles and methods relevant to the healthcare setting.

Particular emphasis is placed on the importance of interdisciplinary exchange within small group settings. Teaching is delivered through interactive sessions. Case studies, class discussion and online discussions facilitate the application of learning and ensure that the programme imparts a theoretical framework of understanding whilst maintaining a practical focus. The programme is continually updated to reflect developments occurring within our rapidly changing healthcare environment. A key feature within the programme is a relatively small class size, which optimises learning for individual students.

The programme offers a comprehensive coverage of subjects relevant to health services management. Modules include management and organisational behaviour; population health; financial management; health economics; human resources management; law; health policy; information management; comparative healthcare; marketing; ethics; strategic management (includes strategic planning, change management, quality management, risk management) and management research.

Applications will be considered from those with health service management experience. In addition, applicants should hold a good honors degree in a professional discipline or an equivalent qualification. Shortlisted applicants may be requested to attend for interview.

### **HOSPITAL PHARMACY (M.Sc.)**

COURSE CODE 222

(See entry in Science)

### **MAMMALIAN CELL PHYSIOLOGY (M.Sc.)**

COURSE CODE 655

*Course Director:* Dr Veronica Campbell

*Duration:* One year, full-time

*Closing Date:* 30 June 2005. Places strictly limited. Applications should be addressed directly to Ms Dara O'Mahony, School of

Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-608 1192

*Email:* vacmpbll@tcd.ie

*Internet:* [www.tcd.ie/Physiology/text/courses/cellphysiology.html](http://www.tcd.ie/Physiology/text/courses/cellphysiology.html)

This course aims to provide a solid basis of understanding in physiological aspects of cell function together with practical experience in modern methodologies that are used for manipulation and monitoring of cell function. The course will suit those who wish to pursue a career in biomedical research and drug development. To be eligible for admission, candidates should normally possess a good degree in a life sciences discipline, medicine or pharmacy. Applications from chemists and engineers with an interest in biotechnology will also be considered.

The first half of the course consists of lectures, student-based seminars and workshops based on the following topics: signal transduction, neurobiology, physiological pharmacology, apoptosis, molecular physiology, data acquisition and analysis. Training is given in techniques used for manipulation and monitoring of cell function and in procedures used to record in vitro

and in vivo responses of the respiratory, cardiovascular and gastrointestinal systems to pharmacological agents. At the end of this formal teaching period, students undertake a five-month research project on some novel aspect of cell physiology, in consultation with an expert supervisor. Potential research areas include neurobiology, apoptosis, inflammation, neuro-immunology, pulmonary physiology, tissue engineering, muscle physiology and cell signalling.

Students are assessed on the basis of their course performance, by written examinations related to principal components of the course and by a research dissertation of 25,000 words.

The course staff have strong research links with the Trinity College Institute of Neuroscience and the Trinity Centre for Bioengineering; and a Socrates exchange with the University of the Saarlandes, Germany.

### **MEDICAL IMAGING (M.Sc.)**

COURSE CODE 259

*Course Director:* Dr Lesley Malone

*Course Coordinator:*  
Mrs Bernadette Moran

*Duration:* One year following successful completion of Postgraduate Diploma.

*Closing Date:* 31 July 2005. Applications should be addressed directly to Ms Dara

O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-809 2798

*Fax:* +353-1-809 2943

*Email:* lmalone@iol.ie

*Internet:* [www.tcd.ie/Clinical\\_Medicine/courses/cmpgc4.html](http://www.tcd.ie/Clinical_Medicine/courses/cmpgc4.html)

This course provides an opportunity for those candidates who have successfully completed either the Postgraduate Diploma in Nuclear Medicine or the Postgraduate Diploma in Magnetic Resonance Imaging to carry out a substantial piece of research work and to present this in the form of a dissertation for the M.Sc. in Medical Imaging.

Admission is only via one or other of the Postgraduate Diploma courses named above and eligible candidates will either have achieved a distinction in their Postgraduate Diploma year or otherwise satisfied the Course Admission Committee that they have the ability to complete and benefit from the course.

The course will incorporate a short taught component in the form of the common modules in Research Methodology, Statistics and Ethics.

### **MIDWIFERY (M.Sc.)**

COURSE CODE 605

*Course Coordinators:* Ms Patricia Cronin

*Duration:* One year, full-time; two years, part-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3735/2692

*Fax:* +353-1-473 2984

*Email:* camccabe@tcd.ie or  
pcronin@tcd.ie

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/courses/postgrad/mscmdwfr.html](http://www.tcd.ie/Nursing_Midwifery/courses/postgrad/mscmdwfr.html)

The aim of this course is to strengthen and develop the knowledge, skills and attitudes of participants. The course covers clinical practice, education, administration and research, and commences with one full study week followed by one study day per week or the equivalent throughout the academic year. There is continuous assessment of each module of the course, as well as written examinations. A research dissertation also have to be completed.

Candidates for the course will be registered as a midwife with An Bord Altranais, or eligible for such registration, and will have at least two years' relevant experience and will have an honors degree in nursing, midwifery, or a related discipline, or equivalent

professional qualification. Applicants without a degree must satisfy the course committee that they have the ability to complete and benefit from the course.

Students undertaking this programme may do a Clinical Health Sciences Education Strand. Successful completion of this strand entitles these students to apply for registration as a Midwifery Tutor with An Bord Altranais.

### **MOLECULAR MEDICINE (M.Sc.)**

COURSE CODE 258

*Course Coordinators:* Dr Ross McManus, Dr Mark Lawler, Dr Aideen Long, Dr Yuri Volkov

*Duration:*

One year, full-time, two years, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-608 2093

*Email:* molec.medic@tcd.ie

*Internet:*

<http://acer.gen.tcd.ie/molmed/> or [www.bioinf.org/molmed/](http://www.bioinf.org/molmed/)

This course aims to give participants an in-depth understanding of the emerging field of molecular medicine which draws

together developments in molecular and cellular biology to describe disease processes at a functional level – that of molecular interactions.

The course aims to provide students with an understanding of the molecular basis of human disease and its implications for the practice of clinical medicine and research in the life sciences. The course will ensure that students from all disciplines have the skills necessary to conduct research and critically evaluate the scientific and medical literature.

The course includes lectures on cellular biology and molecular genetics as they apply generally to normal cell and tissue function and to disease processes. Modules on molecular signalling and therapeutics, bioinformatics and ethical-legal aspects of the discipline are included, as well as literature reviews, laboratory practicals and a laboratory project.

The programme is offered in three formats: the molecular course and two enhanced courses – business and integrated nanoscience. The business format allows students to undertake a number of business modules in conjunction with the Business, Economics and Social Sciences area. This aims to provide participants with an overview of important concepts pertinent to the life sciences, industries and innovation. In this format, three

basic science modules (of seventeen) are replaced by business modules dealing with organisational management, strategic management and innovation. The integrated nanoscience course is taught in conjunction with a number of research and academic areas. It is aimed to provide students with an overview of basic nanotechnology principles, properties of nanomaterials and related physical and chemical techniques; as well as with the knowledge of advanced applications of nanoscience and novel emerging technologies in molecular medicine and therapeutic drug development. Similarly to the enhanced business format, two basic science modules in this course will be replaced by modules dealing with nanoscience and nanotechnology in molecular medicine.

The student is examined on the basis of a submitted critical literature review essay, a written examination, assessment of laboratory practicals and the writing of a dissertation based on a research project.

Candidates from health science (medical, dental, veterinary), biological science and other science disciplines (e.g. chemical or pharmacy), are invited to apply. The course is normally available as a one-year full-time course and is available as a part-time option in exceptional circumstances only.



**MOLECULAR PATHOLOGY  
(M.Sc.) (with Dublin  
Institute of Technology)**

COURSE CODE 267

*Course Coordinators:* Dr Frederick Falkiner (TCD), Dr Jacinta Kelly (DIT)

*Duration:* Two years, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-608 3791

*Email:* fflkiner@tcd.ie

*Internet:*

[www.tcd.ie/Clinical\\_Microbiology/](http://www.tcd.ie/Clinical_Microbiology/)

The aim of this course, run jointly with Dublin Institute of Technology in Kevin Street, is to provide postgraduate education in medical laboratory science for those wishing to pursue a career in this field. It provides an advanced programme in the molecular basis of disease including the etiology, pathogenesis and investigation of the disease process. I.T. and management as applied to Medical Laboratories are also covered.

Students develop research skills by partaking in an advanced practical project in their chosen area of

specialisation.

The course is available on a block-release basis and on a full-time basis. Applicants must hold at least a second-class honors degree in Biomedical Science or equivalent, or have passed the Part I Fellowship examination of the Institute of Biomedical Science or the Fellowship examinations of the Institute of Biomedical Science. Candidates applying for the part-time course must be employed in an appropriate post in either an approved medical or veterinary laboratory. Applicants may be interviewed.

**NURSING (M.Sc.)**

COURSE CODE 604

*Course Coordinator:* Ms Patricia Cronin

*Duration:* One year (full-time), two years (part-time)

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3735/2692

*Email:* pcronin@tcd.ie

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/courses/postgrad/mscnrsing.html](http://www.tcd.ie/Nursing_Midwifery/courses/postgrad/mscnrsing.html)

The aim of this course is to strengthen and develop the knowledge, skills and attitudes of participants. The course covers clinical practice, education,

administration and research, and commences with one full study week followed by one study day per week or the equivalent throughout the academic year. There is continuous assessment of each module of the course, as well as written examinations. A research dissertation will also have to be completed.

Candidates for the course will be registered as a nurse with An Bord Altranais, or eligible for such registration, will have at least two years' relevant experience and will have an honors degree in nursing, midwifery, or a



related discipline, or equivalent professional qualification. Applicants without a degree must satisfy the course committee that they have the ability to complete and benefit from the course.

Students undertaking this programme may do a Clinical Health Sciences Education Strand. Successful completion of this strand entitles these students to apply for registration as a Nurse Tutor with An Bord Altranais.

### **OCCUPATIONAL THERAPY (M.Sc.)**

COURSE CODE 618

*Course Director:* Ms Clodagh Nolan

*Duration:* Two years, part-time

*Closing Date:* 30 June 2005. Places strictly limited. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-608 3218

*Fax:* +353-1-454 6363

*Internet:* [www.tcd.ie/Occupational\\_Therapy/MSc.htm](http://www.tcd.ie/Occupational_Therapy/MSc.htm)

The main aim of this course is to advance the link between the theory and practice of occupational therapy and to promote reflective practice and

improve research skills. The first year of the course includes the following three compulsory modules: (a) research methods and statistics; (b) occupational therapy theory and professional development; (c) independent learning unit. Students may choose two of the following: (a) health care economics (b) health psychology (c) health services management (d) social policy (e) medico-legal issues. The second year of the course is largely devoted to the dissertation (30,000 words), which is supervised by a member of the staff. Students are assessed by written examinations, which are held in June of the first year and by assignments and project work set by the tutors of the various modules within the course.

Candidates for this course must be occupational therapists that hold either a recognised degree or diploma in Occupational Therapy.

### **PAEDIATRICS (M.Sc.)**

COURSE CODE 264

*Course Director:* Dr Judith Meehan

*Duration:* One year, full-time

*Closing Date:* 30 April 2005 – places limited. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-414 3747

*Email:* mscpaed@eircom.net.ie

*Internet:* <http://acer.gen.tcd.ie/molmed/paediatrics/>

This course provides higher clinical training in Paediatrics with a focus on clinical examination. It also equips participants with management skills and research opportunities. The course is ideally suited to those wishing to pursue a specialist career in paediatrics and to those doctors in related specialities who have significant paediatric involvement. It is a full-time taught programme with a modular format, and is assessed by two three-hour written papers, clinical assessment and dissertation.

Candidates for admission require a medical degree, M.B., B.Ch., B.A.O., or equivalent qualification from another university. Candidates will normally have been in paediatric training in an approved institution or have passed the Membership of the Royal College of Physicians Part II examination or have equivalent experience. For those in related specialities, in addition to a medical qualification, a Diploma in Child Health or Membership of the Faculty of Public Health Medicine or experience deemed equivalent will be required.

## PHARMACEUTICAL MEDICINE (M.Sc.)

COURSE CODE 708

*Course Director:* Dr Mary Teeling

*Course Coordinator:* Dr Mary Jo McAvin

*Duration:* Two years, part-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-410 3671

*Fax:* +353-1-473 0596

*Email:* teelingm@tcd.ie, cact@stjames.ie

*Internet:* www.tcd.ie/Pharmacology\_Therapeutics

This course is administered by Pharmacology and Therapeutics, in association with the Centre for Advanced Clinical Therapeutics, St James's Hospital, Dublin. It has been developed to provide medical and science graduates with specialist knowledge and skills in the area of clinical pharmacology and pharmaceutical medicine. Intake is on an annual basis.

Components of the course include principles of:

- Pharmacology and biostatistics

- New drug development and the regulatory environment

- Pharmacoeconomics and rational use of drugs

- Pharmacovigilance and drug information

The course involves completion of taught modules and the additional undertaking of a research project. The modules consist of formal teaching and personal assignments and are run over five terms on a part-time basis (approximately two modules per term). Some of the modules are undertaken by way of distance learning. In addition, the students are assigned a research project (including field work), to be submitted as a dissertation for the degree of M.Sc. only.

Students are assessed by way of continuous assessment and are required to pass written and oral examinations at the end of their course. In addition, they are required to submit a written dissertation on their research project (with the possibility of an oral examination) by the end of the second year of the course.

Prospective students for this course must hold a primary degree in either medicine or another relevant health or science subject. Candidates should have a minimum of two years' practical experience in their area of qualification/pharmaceutical industry.

The course will be run in the William Stokes Postgraduate Centre/Trinity College Health Sciences Building, St. James's Hospital, Dublin 8.

## PHYSICAL SCIENCES IN MEDICINE (M.Sc./P.Grad.Dip.)

COURSE CODES 650/178

*Course Director:* Dr Neil O'Hare

*Duration:* Two years, full-time (Entry is via the M.Sc. only.)

*Closing Date:* 31 July 2005. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-416 2769/2645/2648

*Fax:* +353-1-410 3487/3478

*Email:* nohare@stjames.ie

*Internet:* www2.tcd.ie/Clinical\_Medicine/courses/cmpgc2.html

This course covers areas frequently known as clinical engineering and medical physics. It is designed for students who have a good honors degree in one of the Physical Sciences (physics, electronic or mechanical engineering, computer science, mathematics) and builds on this knowledge to present the academic foundation for the application of the Physical Sciences in Medicine. Taught by

formal lectures, clinical demonstrations, practicals and workshops, the subjects covered in the course include medical imaging, physiological measurement, radiotherapy, radiation protection, basic medical sciences, medical electronics and instrumentation, signal and image processing, medical computing, rehabilitation engineering, hospital organisation and medico-legal topics. Students taking the course as a Diploma must pass all examinations and assignments for these modules. Students taking the course as an M.Sc. must, in addition, engage in original research and report their findings in a dissertation. Topics for the dissertation have spanned a wide range, including radiotherapy treatment planning, biomechanics of the artery, radiation dosimetry, analysis of information in medical images, measurement of standing posture, UV safety, evoked potentials in the brain and many others.

The course extends over two academic years and is timetabled to facilitate students in full-time employment. Students who are not already employed in the field must complete a three-month practical placement in a hospital or other institution. The course is internationally accredited for education of new recruits to the profession of Medical Physics/Engineering.

## **PSYCHOANALYTIC PSYCHOTHERAPY (M.Sc.)**

**COURSE CODE 620**

*Course Coordinator:* Ms Nessa Childers

*Duration:* Three years, part-time

*Closing date:* 28 February 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-272 2928

*Email:* amdps@indigo.ie

*Internet:* [www.tcd.ie/psychiatry/psychotherapy](http://www.tcd.ie/psychiatry/psychotherapy)

This course was developed to meet the growing need for specialised training in psychotherapy for health professionals already in possession of a core training in the area of mental health. It provides a structured and comprehensive postgraduate training in the practice of psychoanalytic psychotherapy with adults. The aim of the programme is to provide a thorough training in psychoanalytic theory from Freud through Klein, Bion, Winnicott, and the Independent Tradition, while strongly emphasising the aspect of clinical training.

Admission requirements: applications are invited from candidates who hold a degree in Medicine or a first class

or second-class honors degree in Psychology, Social Studies, some aspect of mental health or equivalent. Individuals whose training may not meet the above criteria but who are deemed by the Selection Committee to possess exceptional potential for training in the area of psychotherapy may also be considered.

**Course Structure:** the course extends over three years. The formal teaching schedule takes place on one evening and one full day per week during the academic year. The course components include:

- Lectures and seminars on psychoanalytic theory, clinical practice and developmental theory
- Psychopathology, Psychiatry and related subjects
- Infant Observation
- Group Experience
- Personal Therapy
- Supervised Clinical Work.

**Academic Assessment** will be based on:

- A dissertation of 12,000-15,000 words
- A final written examination
- Oral examination
- Term Essays and an Infant Observation paper

Clinical work is assessed on a continuous basis, and students must be classed as satisfactory by their clinical

supervisor. Progress through the course is conditional on the yearly assessment. Students who perform at a satisfactory level in all course components are eligible for the award of M.Sc. in Psychoanalytic Psychotherapy.

### **SPORTS MEDICINE (M.Sc.)**

COURSE CODE 208

*Course Director:* Professor Moira O'Brien

*Course Coordinators:* Dr Nick Mahony and Mr Bernard Donne

*Duration:* One year, full-time

*Closing Date:* 30 April 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-608 1182

*Fax:* +353-1-679 9011

*Email:* anatomy@tcd.ie

*Internet:* [www.tcd.ie/Anatomy/msccourse.htm](http://www.tcd.ie/Anatomy/msccourse.htm)

The course includes lectures, practical and clinical work. It aims to present a scientific basis for the study of all aspects of sports medicine; to outline a comprehensive programme for injury prevention and treatment; to define guidelines for the scientific monitoring and training of athletes; to enable

participants to prescribe training advice for different age groups; and to expose participants to a wide range of specialities relevant to sport and exercise.

An M.Sc. degree is awarded following the passing of written, oral and clinical examinations and the acceptance of a dissertation based on practical research work. Marks are allocated on the basis of 60% examination and 40% dissertation.

Those eligible to apply for this course will be well-qualified medical graduates and chartered physiotherapists (upper second-class honors degree or higher), with minimum one-year post qualification experience. Preference is given to applicants with a strong sporting background (personal involvement or recognised service provision).

### **POSTGRADUATE DIPLOMAS**

Some Masters courses have the option of a Postgraduate Diploma in cases where the taught course has been satisfactorily completed but a dissertation has not been submitted. Such P.Grad.Dip. courses are not listed below as they are not open to entry as separate options from their parent Masters course i.e. students apply for entry to the appropriate Masters course.

### **CLINICAL DENTISTRY (P.Grad.Dip.)**

COURSE CODE 621

*Course Director:* Dr Stephen Flint

*Duration:* Two/three years, part-time

*Closing Date:* 30 November 2005 for admission in January 2006, admission every second year. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-612 7264

*Internet:* <http://global.dental.tcd.ie/Education/>

This course is designed to fill the need, identified by the Dental Council, for a continuing education programme for the Dental Profession. The course aims to combine a 'hands-on' approach with theory. Students have a choice of nine modules, of which they must successfully complete six in order to obtain their Postgraduate Diploma. Students have to provide their own nursing care (where 1:1 assistance is required) and patients on some modules.

The course aims to give insight into the theory and scientific rationale of various aspects of dental practice, develop clinical ability in the relevant areas, and develop confidence in the use of new skills.

The modules offered are: adhesive dentistry, removable prosthodontics, fixed prosthodontics, periodontal



therapy, endodontics, oral medicine, orthodontics, dento-alveolar surgery and paediatric dentistry. In addition a core course covering cross-control of infection, medical emergencies in dental practice, ethics, malpractice and risk management and other issues will be taken by all participants.

The course is assessed by a combination of objective structured clinical examinations, completion of clinical competency and continuous assessment.

### **CLINICAL ENGINEERING (EQUIPMENT MANAGEMENT) (P.Grad.Dip.)**

COURSE CODE 632

*Course Director:* Professor Jim Malone

*Course Coordinator:* Mr Fran Hegarty

*Duration:* One year, part-time

*Closing Date:* 30 June 2005. Two references are required upon application; one from the last academic institution attended and one from the place of employment supporting the applicant in this study. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-416 2246

*Email:* fhgarty@stjames.ie

This Postgraduate Diploma in Clinical Engineering (Equipment Management) is concerned with the training and education of scientists, engineers and technicians who will provide clinical engineering/equipment management services to hospitals, either through direct employment or employment in companies selling their services to hospitals. It avails of the framework of the Haughton Institute to facilitate a rich mixture of in-service elements with a well- developed academic basis.

The programme focuses on the vocational needs of those who intend to follow a career in clinical engineering/equipment management and is offered by Health Sciences, with support from Engineering and Systems Science.

### **CLINICAL HEALTH SCIENCES EDUCATION (P.Grad.Dip.)**

COURSE CODE 656

*Course Coordinator:* Ms Naomi Elliott

*Duration:* One year, part-time

*Closing date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3106

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/courses/postgrad/pgdipchse.html](http://www.tcd.ie/Nursing_Midwifery/courses/postgrad/pgdipchse.html)

This course is a joint venture between the School of Nursing and Midwifery and Education. The course is intended to facilitate health service professionals who hold an honors degree to develop their skills in teaching, assessment, curriculum design, development and evaluation. The course comprises five modules: the theory and practice of health sciences education; facilitating learning in a practice setting; the psychology of education; curriculum issues in health sciences education and quality improvement in education. The programme starts with one full study week and continues with one to two days per week for the academic year. Students must undertake a minimum of 135 hours of classroom and clinical teaching throughout the course.

The assessment process used is a combination of written and practical assignments. Students must pass independently the assessed teaching practice and the written assignments. The pass grade is 50%. Students who do not undertake the required amount of teaching practice will not be eligible to receive the Postgraduate Diploma in Clinical Health Sciences Education.

Candidates for the course must be currently registered as a health sciences professional (e.g. physiotherapist, doctor, nurse, midwife) with the appropriate body and working in a relevant area, have two years' clinical experience since first registration

(excluding postgraduate study), hold an honors degree in a relevant discipline or equivalent professional and academic qualifications. Candidates for the course must also satisfy the course committee that they have the ability to complete all the requirements of the course including the stated teaching hours.

In order to be eligible to apply to the Tutor's Division of the Register held by An Bord Altranais, nurses and midwives who are successful on this course are also required to have a Masters degree.

**CLINICAL SPEECH AND  
LANGUAGE STUDIES  
(DYSPHAGIA)  
(P.Grad.Dip./M.Sc.)**

COURSE CODES 722/723

*Course Director:* Dr Margaret Walshe to whom enquiries should be directed.

*Duration:* One year, part-time (P.Grad.Dip.); two years, part-time (M.Sc.)

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2. Late applications may be considered subject to the availability of places

Entry both via P.Grad.Dip. and M.Sc. For further details contact the course director at [walsHEMA@tcd.ie](mailto:walsHEMA@tcd.ie).

**COGNITIVE PSYCHOTHERAPY  
(P.Grad.Dip./M.Sc.)**

COURSE CODES 612/609

*Course Director:* Dr Anthony Bates

*Duration:* One/two years.

Bi-annual intake, entry via diploma

*Closing Date:* 30 April 2005.

Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* [omahoned@tcd.ie](mailto:omahoned@tcd.ie)

*Telephone:* +353-1-416 2626

*Email:* [cencogther@eircom.net](mailto:cencogther@eircom.net)

*Internet:* [www.tcd.ie/Psychiatry/postgrad.htm](http://www.tcd.ie/Psychiatry/postgrad.htm)

The course aims to explore in depth the theory and practice of Cognitive Psychotherapy. Students are supervised treating a minimum of three cases, and are taught the use of Cognitive Psychotherapy in relation to a variety of different areas and disorders. Teaching takes place one full day per week (Friday) during academic term. Assessment is based on evaluation of the student's clinical performance using the Cognitive Therapy Scale and four written assignments (Diploma year), and on a dissertation in the M.Sc. year.

Candidates must be employed in a health care setting and using counselling and psychotherapy as part of their work. They will normally be graduates of recognised university courses or have equivalent professional qualifications.

Students who satisfy the requirements of the Postgraduate Diploma course, and who satisfy the admissions committee that they have the ability to complete a research dissertation, may elect to study for a further year to achieve an M.Sc. Successful students who elect to be awarded the Postgraduate Diploma may not subsequently enrol for the M.Sc.

**EXERCISE PHYSIOLOGY  
(P.Grad.Dip./M.Sc.)**

COURSE CODES 600/253

*Course Director:* Dr Stuart Warmington

*Duration:* P.Grad.Dip: one year, part-time; M.Sc: two years, part-time

*Closing Date:* 30 April 2005, places strictly limited. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557

*Email:* [omahoned@tcd.ie](mailto:omahoned@tcd.ie)

*Telephone:* +353-1-608 2723

*Fax:* +353-1-679 3545

*Email:* [physiol@tcd.ie](mailto:physiol@tcd.ie)

*Internet:* [www2.tcd.ie/Physiology/text/courses/exscience.html](http://www2.tcd.ie/Physiology/text/courses/exscience.html)

This course aims to provide training for professional development of physical educators and health care workers who employ exercise therapy. Applicants are expected to hold a good primary degree with some grounding in biology. Preference may be given to candidates who are employed in a relevant field. There is an initial common year of taught courses for both Postgraduate Diploma and Masters programmes, representing around 260 contact hours over the year. As far as possible courses are programmed to take place on only two days per week (Mondays and Fridays).

In the first year, students are continuously assessed on laboratory and project work and sit two final written examination papers during May with a viva voce examination in early June.

Students who have received an honors grading in the first year may elect to undertake a second research-based year to achieve an M.Sc. This research is expected to involve a commitment of around 300 hours over the year and assessment is a dissertation of approximately 20,000 words. Students who elect to be awarded the Postgraduate Diploma may not subsequently enrol for the M.Sc.

Current taught course timetables and assessment procedures, together with information on course content and career paths of previous graduates, may be viewed on the College website.

### **GERONTOLOGICAL NURSING (P.Grad.Dip.)**

COURSE CODE 240

*Course Coordinator:*

Ms Marie Therese Cooney

*Duration:* One year, full-time

*Closing Date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3005

*Fax:* +353-1-473 2984

*Email:* [mtcooney@stjames.ie](mailto:mtcooney@stjames.ie)

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/courses/postgrad/pgdipgrntlgy.html](http://www.tcd.ie/Nursing_Midwifery/courses/postgrad/pgdipgrntlgy.html)

The course aims to develop the knowledge, skills and attitudes of nurses towards older people to the highest professional standards. Participants must be employed in the Department of Medicine for Older People, St. James's Hospital, or in other approved Care of the Older Person facilities for the duration of the programme. During this time, specialist experience must be obtained in the approved clinical locations in each of the following areas: acute admission and assessment, rehabilitation and continuing care.

Academic content consists of eight weeks distributed over the academic year. The formal teaching component covers three broad themes: nursing theory including personal and professional development, age related issues and research issues. Some of the teaching is shared with the Postgraduate Diploma in Professional Nursing/Midwifery Studies and the Postgraduate Diploma in Specialist Nursing. Throughout the course, emphasis is placed on the application and integration of theory and practice. There is continuous assessment of each module of the course and will include a written examination.

Applications for admission will be accepted, subject to places being available, from nurses on the general, psychiatric and/or mental handicap division of An Bord Altranais Live Register, who have a minimum of two years' post-registration experience, and who satisfy the Course Admission Committee that they have the ability to complete and benefit from the course.

**GYNAECOLOGY AND  
OBSTETRICS (P.Grad.Dip.)**

COURSE CODE 126

*Course Director:*

Professor Brian Sheppard

*Duration:* Six months, full-time

*Closing Date:* 31 January for admission in the following October, limited places available. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2190

*Email:* mackinb@tcd.ie

*Internet:* [www.tcd.ie/Obstetrics/courses.htm](http://www.tcd.ie/Obstetrics/courses.htm)

The Postgraduate Diploma in Gynaecology and Obstetrics is an internationally recognised specialist qualification, known as the DGO. It has been awarded by Trinity College for over 80 years. The course is based in the Rotunda Hospital and begins on 1st October each year.

The course provides up-to-date information on clinical management in obstetrics and gynaecology and scientific knowledge on female health care. It combines clinical and theoretical instruction in obstetrics, gynaecology, neo-natal paediatrics, anatomy of the female pelvis, embryology, physiology of reproduction and obstetric and gynaecological pathology. Examination takes place at the end of March.

Applications for admission are invited from medical practitioners who have completed at least one year in the speciality of Obstetrics and Gynaecology. Preference is given to applicants from developing countries who have not previously had the opportunity of external postgraduate study or experience.

**HEALTH INFORMATICS  
(P.Grad.Dip/M.Sc)**

COURSE CODES 617/616

For further information, see entry in Engineering and System Sciences.

**MAGNETIC RESONANCE  
IMAGING TECHNOLOGY  
(P.Grad.Dip.)**

COURSE CODE 644

*Course Coordinator:*

Mrs Bernadette Moran

*Duration:* One year, part-time (Fridays)

*Closing Date:* 31 July 2005. Two references are required upon application. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-809 2798

*Fax:* +353-1-809 2943

*Email:* lmalone@iol.ie

*Internet:* [www2.tcd.ie/Clinical\\_Medicine/courses/cmpgc4.html](http://www2.tcd.ie/Clinical_Medicine/courses/cmpgc4.html)

This course is aimed at qualified radiographers and it is intended to provide a general education in the practice of magnetic resonance imaging. It is designed to give a solid academic basis in the understanding of imaging theory and a high level of practical experience in MRI techniques and in safe use of imaging and associated equipment.

The course incorporates both taught and practical components, with the taught component forming a substantial part of the course. Practical clinical experience is gained either in the candidate's own department or via a clinical placement.

To be eligible for consideration applicants must have a degree in Radiography or the Diploma of College of Radiographers (London) in Diagnostic or Therapeutic Radiography, or hold professional qualifications obtained by examination which are recognised to be equivalent to those set out above or otherwise satisfy the Dean of Graduate Studies and Course Admissions Committee that they have the ability to complete and benefit from the course.

An associated M.Sc. in Medical Imaging is available to candidates who have

achieved distinction in the postgraduate diploma year or who otherwise satisfy the course committee. Students who are interested in this option forego the award of the diploma and proceed to perform research on a chosen topic to be presented as a dissertation for examination for the degree of M.Sc.

### **MIDWIFERY (P.Grad.Dip.)**

COURSE CODE 648

*Course Coordinator:* Margaret Carroll

*Duration:* Two years, full-time

*Application:* Application should be made to the Director of Midwifery, the Rotunda Hospital,

*Telephone:* +353-1-873 0700

or to Ann O'Neill, Recruitment Section, Human Resource Department, Our Lady of Lourdes, Louth/Meath Hospital Group, (NEHB), Drogheda,

*Telephone:* +353-41-987 4738

*Telephone:* +353-1-608 3553

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/courses/postgrad/pgdipmdwfr.html](http://www.tcd.ie/Nursing_Midwifery/courses/postgrad/pgdipmdwfr.html), or [www.rotunda.ie/information/training.html](http://www.rotunda.ie/information/training.html), or [www.nehb.ie](http://www.nehb.ie)

Two programmes are available. One programme is taught by the School of Midwifery, the Rotunda Hospital, Dublin and the other by the Regional School of Midwifery, Our Lady of Lourdes, Louth/Meath Hospital Group, North Eastern Health Board (NEHB),

Drogheda, both in association with the School of Nursing and Midwifery. The programmes are designed to develop midwives with the knowledge, skills and attitudes necessary to become competent, analytical and reflective practitioners, thus enabling them to provide care in a manner that benefits women and their families.

Enquiries should be directed to Deirdre Daly, Principal Midwife Teacher, School of Midwifery, The Rotunda Hospital,

*Telephone:* +353-1-873 0700,

*Email:* [ddaly@rotunda.ie](mailto:ddaly@rotunda.ie) or

Patricia Larkin or Jean McMahon, Principal Midwife Teachers, School of Midwifery, Our Lady of Lourdes, Louth/Meath Hospital Group, (NEHB), Drogheda,

*Telephone:* +353-41-983 7601, Ext 2197/2198,

*Email:* [patricia.larkin@nehb.ie](mailto:patricia.larkin@nehb.ie) or [jean.mcmahon@nehb.ie](mailto:jean.mcmahon@nehb.ie).

### **MOLECULAR MEDICINE (P.Grad.Dip)**

COURSE CODE 725

*Course Coordinators:*

Dr Ross McManus, Dr Mark Lawler, Dr Aideen Long, Dr Henry Windle & Dr Yuri Volkov.

*Duration:* One year, part-time

*Closing Date:* 30 April 2005.

Applications should be addressed

directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557

*Email:* [omahoned@tcd.ie](mailto:omahoned@tcd.ie)

*Telephone:* +353-1-608 3157

*Email:* [molec.medic@tcd.ie](mailto:molec.medic@tcd.ie)

*Internet:* <http://oscar.gen.tcd.ie/molmed> or [www.bioinf.org/molmed/](http://www.bioinf.org/molmed/)

This programme aims to provide participants with an in-depth understanding of the emerging field of molecular medicine, which draws together developments in molecular and cellular biology to describe disease processes at a functional level – that is, at the level of molecular interactions. The Diploma in Molecular Medicine is designed to make available a high quality course to those individuals who cannot avail of a full-time programme, due to the high demands it makes on a candidate's time. The diploma may therefore be an attractive option for, among others, people working in business, clinical industry, or other disciplines, who wish to gain a comprehensive knowledge in this area with a view to progressing professionally, or going on to do a higher degree.

This programme offers a comprehensive and thoroughly up-to-date overview of the area, which provides participants with the skills necessary to critically



evaluate the literature and understand the central concepts of molecular medicine, such as the molecular basis of human disease and its implications for the practice of clinical medicine and research in the life sciences. The course includes lectures on cellular biology and molecular genetics as they apply generally to normal cell and tissue function and to disease processes. Advanced modules cover topics such as molecular oncology, signalling, development and therapeutics, immunology and infectious agents among others. A selection of modules on issues such as bioinformatics, research methodology, statistics and ethical-legal aspects of the discipline may be undertaken on an optional basis.

Students choose a minimum of 10 units totalling a minimum of one hundred contact hours teaching. Students are also required to complete a written review of a relevant part of the literature.

Students are examined on the basis of the submitted critical literature review essay, and written examinations of the modules taken. Examinations are undertaken at the end of each term.

Candidates should normally have a minimum of a 2.1 honors degree or equivalent in a biological science; a clinical science such as medicine, dentistry or veterinary; a

pharmaceutical science such as pharmacy, or related area. However individuals with other appropriate or industrial experience (for example those working in the life sciences sector) will also be considered. The candidate may be interviewed to establish his/her suitability for the course.

### **NUCLEAR MEDICINE (P.Grad.Dip.)**

COURSE CODE 261

*Course Director:* Dr Patrick Freyne

*Course Coordinator:*  
Ms Bernadette Moran

*Duration:* One year

*Closing Date:* 31 July 2005. Two references are required upon application. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Internet:* [www2.tcd.ie/Clinical\\_Medicine/courses/cmpgc4.html](http://www2.tcd.ie/Clinical_Medicine/courses/cmpgc4.html)

The course is designed to train qualified radiographers in the practice of nuclear medicine imaging and to provide patients and healthcare services with an ongoing source of excellence in this specialty. The course curriculum is

developed to ensure that students attain an appropriate level of knowledge and experience in the following areas of nuclear medicine imaging: (a) academic and theoretical knowledge, (b) clinical and practical experience and (c) organisational and management experience. The radiographer would thus be able to adapt and change as knowledge inevitably develops in this progressing field.

The Diploma course incorporates both taught and practical components with the taught component forming a substantial part of the course.

An associated M.Sc. in Medical Imaging is available to candidates who have achieved distinction in the postgraduate diploma year or who otherwise satisfy the course committee. Students who are interested in this option forego the award of the diploma and proceed to perform research on a chosen topic to be presented as a dissertation for examination for the degree of M.Sc.

### **ONCOLOGICAL NURSING (P.Grad.Dip.)**

COURSE CODE 665

*Course Coordinator:* Ms Mary Mooney

*Course Leader:*

Ms Mary MacMahon, St Luke's Hospital

*Duration:* One year, full-time

*Closing Date:* 28 February 2005.

Applications and enquiries should be made to Ms Mary MacMahon, Nurse Education Coordinator, St. Luke's Hospital, Highfield Road, Rathgar, Dublin 6.

*Telephone:* +353-1-4065223

*Email:* mary.macmahon@slh.ie

*Telephone:* +353-1-608 3105

*Email:* mooneyma@tcd.ie,  
traceyc@tcd.ie

This programme which is taught by the School of Nursing, St. Luke's Hospital, in association with the School of Nursing and Midwifery Studies and St. James's Hospital aims to:

- Develop a competent proactive professional with a heightened sensitivity to the many physical and psychological components of individual reactions to health, illness and particularly cancer
- Provide the registered nurse with the knowledge, skills and attitudes necessary to provide an holistic approach to caring for the patient diagnosed with cancer
- Facilitate the registered nurse to develop into a more caring, reflective and enquiring practitioner, capable of planning, implementing and evaluating care based on researched, scientific theory.

## **PAEDIATRIC NURSING (P.Grad.Dip.)**

COURSE CODE 646

*Course Coordinator:* Ms Mary Mooney

*Duration:* 18 months, full-time

*Closing Date:* 28 February for April entry and 31 July for October entry each year. Applications should be made to the Matron, the Adelaide and Meath Hospital, Dublin, incorporating the National Children's Hospital at Tallaght. Enquiries should be directed to Ms Carole King, College of Nursing, Tallaght Hospital,

*Telephone:* +353-1-414 2856

*Email:* mooneyma@tcd.ie,  
traceyc@tcd.ie

*Telephone:* +353-1-608 3938/3901

*Internet:*  
[www.tcd.ie/Nursing\\_Midwifery/courses/postgrad/conjnt/pgdippaed.rscn.html](http://www.tcd.ie/Nursing_Midwifery/courses/postgrad/conjnt/pgdippaed.rscn.html)

This programme aims to develop and expand knowledge, skills and attitudes in nurses towards infants, children, their parents and family. The course is designed to equip nurses to deliver primary health care, acute, rehabilitative and palliative care as required and to foster the process of continuing education and research in paediatric nursing practice.

Students must be registered in one of the three disciplines in nursing- general, psychiatry, intellectual disability nursing

and have 6 month's post registration experience since initial registration.

## **PHARMACEUTICAL MEDICINE (P.Grad.Dip)**

COURSE CODE 707

*Course Director:* Dr Mary Teeling

*Course Coordinator:* Dr Mary Jo McAvin

*Duration:* 18 months, part-time.

*Closing Date:* 30 June. Applications should be addressed directly to Ms Dara O'Mahony, School of Research and Postgraduate Education, Trinity Centre for Health Sciences, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-608 3556/3557,

*Email:* omahoned@tcd.ie

*Telephone:* +353-1-410 3671

*Fax:* +353-1-473 0596

*Email:* teelingm@tcd.ie, cact@stjames.ie

*Internet:* [www.tcd.ie/Pharmacology\\_Therapeutics](http://www.tcd.ie/Pharmacology_Therapeutics)

This course is administered by Pharmacology and Therapeutics, in association with the Centre for Advanced Clinical Therapeutics, St James's Hospital, Dublin. It has been developed to provide medical graduates with specialist knowledge and skills in the area of clinical pharmacology and pharmaceutical medicine. Intake is on an annual basis.

Components of the course include principles of:

- Pharmacology and biostatistics
- New drug development and the regulatory environment
- Pharmacoeconomics and rational use of drugs
- Pharmacovigilance and drug information

The course has a modular format and runs over five terms on a part-time basis (approximately two modules per term). The course consists of formal teaching and personal assignments. Some of the modules are undertaken by way of distance learning. Students are assessed by way of continuous assessment and are required to pass written and oral examinations at the end of their course.

Prospective students for the postgraduate diploma must hold a primary degree in medicine and must have a minimum of two years' general medicine experience post-registration. Ideally, candidates should have practical experience in pharmaceutical medicine (via employment in the pharmaceutical industry/contract research organisation, regulatory authority or academia).

The course will be run in the William Stokes Postgraduate Centre/Trinity College Health Sciences Building, St. James's Hospital, Dublin 8.

## PROFESSIONAL NURSING STUDIES (P.Grad.Dip)

COURSE CODE 717

*Course Coordinator:* Margarita Corry

*Duration:* One year, part-time

*Closing date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608-3008

*Fax:* +353-1-473 2984

*Email:* corrym@tcd.ie

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/pgdiploma.html](http://www.tcd.ie/Nursing_Midwifery/pgdiploma.html)

This course is intended to facilitate registered nurses to enhance their skills in assessing, planning, implementing and evaluating care, which is, where possible, evidence based. Nurses who have studied to degree level or equivalent are supported to further develop their theoretical knowledge base and apply this to the practice setting. The programme content provides the participants with the knowledge and academic skills required to develop an improved quality of service through caring, reflection and enquiry. The programme is a part-time modular programme consisting of six modules. Classes are mainly held in the School of Nursing and Midwifery, D'Olier Street and Trinity College campus.

## PROFESSIONAL MIDWIFERY STUDIES (P.Grad.Dip)

COURSE CODE 718

*Course Coordinator:* Margarita Corry

*Duration:* One year, part-time

*Closing date:* 31 March 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone* +353-1-608-3008

*Fax:* +353-1-473 2984

*Email:* corrym@tcd.ie

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/pgdiploma.html](http://www.tcd.ie/Nursing_Midwifery/pgdiploma.html)

This course is intended to facilitate registered midwives to enhance their skills in assessing, planning, implementing and evaluating care, which is, where possible, evidence based. Midwives who have studied to degree level or equivalent are

supported to further develop their theoretical knowledge base and apply this to the practice setting. The programme content provides the participants with the knowledge and academic skills required to develop an improved quality of service through caring, reflection and enquiry. The programme is a part-time modular programme consisting of six modules. Classes are mainly held in the School of Nursing and Midwifery, D'Olier Street and the Trinity College campus.

## **SPECIALIST NURSING (P.Grad.Dip.)**

COURSE CODE 649

*Course Coordinator:* Ms Louise Nolan

*Duration:* One year full-time

*Closing Date:* 28 February 2005.

Application forms should be requested from and applications should be made to the Specialist Nursing P.Grad.Dip. Programme, The School of Nursing and Midwifery, 24 D'Olier Street, Dublin 2.

*Telephone:* +353-1-608 3892/3005

*Email:* muldowna@tcd.ie or flynnnci@tcd.ie

*Telephone:* +353-1-608 3931

*Email:* lonolan@tcd.ie

*Internet:* [www.tcd.ie/Nursing\\_Midwifery/courses/postgrad/conjnt/pgdipnsn.html](http://www.tcd.ie/Nursing_Midwifery/courses/postgrad/conjnt/pgdipnsn.html)

The aim of these programmes is to facilitate the qualified nurse working in specialist areas to become a more knowledgeable, analytical, reflective and caring nurse, capable of assessing, planning, implementing and evaluating specialist nursing care based on researched scientific theory.

These programmes consists of two core modules: Audit and Research in Clinical Practice, and Professional Issues for Specialist Nurses, and four specialists modules. All students must pass the core and specialists component.

Students must also complete a clinical component relevant to their speciality strand. All students must pass the required clinical competencies in order to achieve the post graduate award.

The admission requirements are as follows:

- Registration as a nurse on the General Division of An Bord Altranais, or eligible for such registration for all general nursing specialists programmes.
- Current registration on the General Nurses Division of An Bord Altranais Live Register or the RSCN Division of An Bord Altranais Live Register for paediatric accident and emergency nursing strand.
- Current registration on the RMHN Division of An Bord Altranais Live Register is required for the dementia care for persons with intellectual disability strand.
- Current registration on the Registered Psychiatric Nurses Division of An Bord Altranais Live Register is required for the care of the client with severe and enduring mental illness strand.
- Two years post-registration experience since first registration
- 12 month's experience in the appropriate speciality at the time of application

■ Candidates must fulfil one of the following entry criteria:

- Diploma in Nursing Studies or equivalent Nursing Diploma, or
- Have successfully completed the TCD Access to Nursing Degree programme of equivalent, or
- Evidence of study to Diploma Level equivalent in a subject allied to Health Care, or
- Satisfy the selection committee that they have the academic ability to successfully complete the programme.

These programmes are taught in partnership between the School of Nursing & Midwifery and the associated hospitals.

The following are the names of the Specialist strands currently being provided and the names of the associated hospitals:

- Accident and emergency (St James's and AMNCH)
- Promoting enablement in persons with physical disability (St Mary's Hospital Phoenix Park)
- Burns plastics and oro-maxillofacial (St James's)
- Dementia care for persons with intellectual disability (St Michael's House Organisation, Daughters of Charity Service, Stewarts Hospital

and Peamount Intellectual Disability Services.)

- Coronary care (St James's and AMNCH)
- High dependency nursing (St James's)
- Intensive care (St James's and AMNCH)
- Orthopaedic nursing (AMNCH)
- Paediatric accident and emergency nursing (AMNCH)
- Renal (AMNCH and Waterford Regional Hospital)
- Per-operative nursing (St James's and AMNCH)
- Care of persons with severe and enduring mental illness (St Patrick's Hospital and the South Western Area Healthboard)
- Haematology nursing

Enquiries should be made to the following:

**General nursing specialist strands in St James's Hospital, [www.stjames.ie](http://www.stjames.ie)**

Ms Barbara Garrigan, Principal Nurse Tutor, School of Nursing, St. James's Hospital, Dublin 8.

*Telephone:* +353-1-416 2202

**General nursing specialists strands in Adelaide & Meath Hospital, Dublin, incorporating the National Children's Hospital (AMNCH), [www.amnch.ie](http://www.amnch.ie)**

Ms Mary Cotter, Acting Principal Nurse Tutor, College of Nursing AMNCH.

*Telephone:* +353-1-414 2857

**Dementia care for persons with intellectual disability**

Ms Kay Downey Ennis, St Vincent's Hospital, Navan Road, Dublin 7.

*Telephone:* +353-1-824 5409 or

+353-1-824 5419

*Email:* [k.ennis@doc-central.ie](mailto:k.ennis@doc-central.ie)

**Haematology nursing, promoting enablement in persons with physical disability, severe and enduring mental illness**

Anne-Marie Corroon, Course Coordinator, Midwifery Studies, 24 D'Olier Street, Dublin 2.

*Telephone:* +353-1-608 3974

*Email:* [annemarie.corroon@tcd.ie](mailto:annemarie.corroon@tcd.ie)

**Promoting enablement in persons with physical disability (St. Mary's Hospital Phoenix Park)**

Annie-Marie Payne, Nurse Tutor, St.

Mary's Hospital, Phoenix Park, Dublin 20.

*Telephone:* +353-1-677 8132

**Severe and enduring mental illness (St. Patrick's Hospital, South Western Area Health Board, Eastern Regional Health Authority)**

Sinead Frain, Clinical Facilitator, SWAHB, Block E, Westland Park, Nangor Road, Dublin 12.

*Telephone:* +353-1-460 9690



# Science



# Science

Science is comprised of areas of Biochemistry, Botany, Chemistry, Environmental Sciences, Geography, Geology, Genetics, Mathematics, Microbiology, Pharmacy, Physics and Zoology. Science has a wide range of facilities that are available to all research students including the Electron Microscope Unit, NMR spectrometers and the Confocal Microscope. 1998 saw the opening of the new East-End Development, which houses the Pharmacy area and the Smurfit Institute of Genetics. In 2000, the Institute of Advanced Materials Science Building was completed. This building facilitates substantial expansion of research in Physics and Chemistry.

The postgraduate student population of the whole area is approximately 600. In addition there is a substantial number of postdoctoral fellows and research associates, all combining to make it an international, friendly and vibrant centre of learning. Postgraduate courses leading to the degree of M.Sc. are offered in the areas of Environmental Sciences, High Performance Computation, Hospital Pharmacy, Pharmaceutical Analysis and Pharmaceutical Technology.

Science has a world-class reputation for research, and research income last year was in excess of €30 million. This provides all students with an excellent teaching environment, state-of-the-art equipment and support facilities.

The area is engaged in extensive research networks throughout the world and there is a continual flow of visiting researchers to the College. There is also collaboration in research with other institutions in Ireland. Important relationships with industry are in place and entrepreneurial talents are supported. Research activities have given rise to a number of successful campus companies including Magnetic Solutions and Horcom. Enquiries from prospective research students are welcome. Applicants are advised to make direct contact with the academic staff contact of the subject area of their choice in the first instance.



## BIOCHEMISTRY

*Academic Staff Contact:*

Professor Clive Williams

*Telephone:* +353-1-608 1608

*Fax:* +353-1-677 2400

*Academic staff numbers:*

18 and 3 independent research groups

*Postgraduate numbers:* 40 by research

*Internet:* [www.tcd.ie/Biochemistry/](http://www.tcd.ie/Biochemistry/)

Biochemistry is well equipped to perform research in biochemistry, cell and molecular biology, structural biology, immunology and neurochemistry. Through its extensive involvement in international and other European programmes, there is also a steady stream of visiting research workers from EU and Eastern European countries. There are extensive international collaborative links with universities, research institutes and industry.

The main research areas are immunology, neurobiology and structural biology. Information on specific research projects, vacancies and studentships can be found on the Biochemistry website.

**BOTANY**

*Academic Staff Contact:* Dr John Parnell

*Telephone:* +353-1-608 1269

*Fax:* +353-1-608 1147

*Academic staff numbers:* 8

*Postgraduate numbers:* 25 research

*Internet:* [www.tcd.ie/Botany/](http://www.tcd.ie/Botany/)

Botany is well equipped for research in several areas of plant biology with three major research groups specialising in ecology, systematics and whole plant physiology. As well as a plant molecular laboratory, focussing on systematic work, and a new palynological laboratory there are extensive facilities for growing plants on campus (controlled environment chambers, greenhouses and tissue-culture growth-room) and at the newly refurbished Trinity College Botanic Garden (laboratory, extensive greenhouse, growth-rooms and outdoor experimental areas).

The College Herbarium, the second largest in Ireland, is very well equipped and has its own extensive library. It contains over 300,000 specimens including Harvey's type collection of algae, an extensive collection of reference pollen from Europe and North America and large collections from Europe, Africa, Australia and Thailand. The Herbarium's research is focused on SE Asia and Ireland. It is visited by taxonomists from every part of the

world and has strong links with the RBG (Kew), RGB (Edinburgh), Leiden, Arrhus and Harvard.

Botany has close links with the Centre for Environmental Science analytical laboratory, the Centre for Microscopy and Analysis, the National Botanic Garden Glasnevin, Teagasc (The Agricultural Institute) and the National Parks and Wildlife Service. Its international links and research income largely derive from the EU and nationally funded R&D programmes.

Specific research projects are available in the following areas: impacts of climate change on vegetation, greenhouse gas fluxes from grassland and arable crops, assimilate partitioning; vegetation/climate history of the last 150,000 years, grazing ecology, upland land use; forest vegetation, vegetation of the Caribbean and northern South America; higher plant taxonomy (especially European and Thai floras), Asian Myrtaceae; pollination, invasive species biology; plant genetic resources (especially in Ireland), genetic variation, population differentiation, island variation (especially in the Pacific) and conservation.

**CENTRE FOR THE ENVIRONMENT**

*Postgraduate Contact:*

Dr Kenneth Irvine

*Telephone:* +353-1-608 1638

*Fax:* +353-1-671 8047

*Internet:* [www.tcd.ie/Centre\\_for\\_the\\_Environment/](http://www.tcd.ie/Centre_for_the_Environment/)

The popularity and importance of Environmental Science as a discipline of study is due to its holistic approach; an integration of knowledge from a wide range of subject areas in order to best equip the student to confront questions of pollution, conservation and resource management. Such multi-disciplined awareness is seen increasingly as important particularly with regard to career opportunity.

Trinity College has an outstanding record in both teaching and research into environmental issues, particularly over the last twenty years from the establishment of the Environmental Science Unit in 1979 to the creation of the Centre for Environmental Science in 2000. One reflection of this is the highly successful graduate course in Environmental Science.

**CHEMISTRY***Academic Staff Contact:*

Professor John Corish

*Telephone:* +353-1-608 1726*Fax:* +353-1-671 2826*Academic staff numbers:* 20*Postgraduate numbers:* 61 research*Internet:* [www.tcd.ie/Chemistry](http://www.tcd.ie/Chemistry)

Experimental research areas include organic synthesis, medicinal chemistry, coordination and organometallic chemistry, electrochemistry, photochemistry, surface chemistry and supramolecular chemistry.

Several research teams are active in the area of computational chemistry and in materials chemistry including polymer science and nanomaterials.

A number of research groups are based in the main building and others are housed within the Sami Nasr Institute of Advanced Materials (SNIAM). A state-of-the-art CCD single crystal diffractometer and a Jasco circular dichroism spectrometer are also located in SNIAM. The area possesses a high-resolution electrospray mass spectrometer and two high-field NMR spectrometers (300 and 400 MHz). The Computational Chemists are moving to the Institute for Information Technology and Advanced Computation (IITAC) which will also house the College's High Performance Computing (HPC) Centre and facilities in the INS Building.

Research income is earned from national, international and commercial sources and the area has held grants in all of the relevant research programmes funded by the EU. Research work is also supported through Science Foundation Ireland funded initiatives. Several groups are involved in networks of European laboratories, often as coordinators. The College also fosters an interdisciplinary approach to research and there are strong links with colleagues in the physical, technological and biological sciences throughout the College. For example there is an extensive overlap of interests with the area of Physics, especially in surface and solid-state science, polymeric and optical materials, and with the Institute of Molecular Medicine on Anti-tumour Drugs. Collaboration with the area of Pharmacy has resulted in the development of novel drug delivery systems that have been commercialised.

**GENETICS***Academic Staff Contact:*

Professor Tony Kavanagh

*Telephone:* +353-1-608 1140*Fax:* +353-1-671 4968*Academic staff numbers:* 16*Postgraduate numbers:* 41 research*Internet:* [www.tcd.ie/Genetics](http://www.tcd.ie/Genetics)

Research in Genetics has its origins in molecular, quantitative and population genetics; and the advent of molecular biological technology has opened up many new avenues of genetic research. Research interests can be categorised into the following broad areas: medical genetics, bioinformatics, molecular cell biology, molecular evolution, population genetics, bacterial genetics and plant genetics. Precise details of the research interests of each staff member can be obtained on the Genetics website.

The Wellcome Ocular Genetics Unit was established in 1992 and has an international reputation for its research on hereditary blindness, especially retinitis pigmentosa (RP). It has identified genes involved in many forms of hereditary blindness including a gene for an autosomal dominant form of RP. It has a research staff of about 20 people and includes a dedicated specific pathogen free (SPF) facility for transgenic mouse research. One of the research aims is to develop novel therapies for forms of inherited blindness.

There is a research group investigating apoptosis and its association with disease. Interests lie in identifying the signals responsible for inducing the apoptotic pathway and identifying the proteases and other factors that

participate in the activation cascade. A particular focus is to identify how lesions in this process lead to human disease.

The area has been investigating cattle genetics for more than 30 years; a study recently extended to the structure and origins of the cattle of Europe, Asia and Africa. Related studies are being carried out on the thoroughbred horse and the same DNA techniques are now being applied to a study of the origins of the peoples of Ireland.

Staff and students have participated in whole genome sequencing projects including those of the yeast, *Bacillus subtilis*, *Arabidopsis* and human. The area has developed expertise in bioinformatics and molecular evolution, especially yeast evolution. In addition, there is a major research effort in understanding genome structure and evolution. There are also major projects on functional genomics of *Bacillus subtilis* and *Arabidopsis*.



## GEOGRAPHY

*Academic Staff Contact:*

Professor David Taylor

*Telephone:* +353-1-608 1581

*Fax:* +353-1-671 3397

*Academic staff numbers:* 10

*Postgraduate numbers:* 42 research

*Internet:* [www.tcd.ie/Geography](http://www.tcd.ie/Geography)

Geography is located within the architecturally impressive Museum Building at the centre of the main campus. In addition to its teaching and laboratory facilities, it houses the Freeman Library and the Computational Earth and Environmental Sciences Facility. A significant number of research projects are funded from external sources, including the Irish Research Council for Science, Engineering and Technology, the Irish Research Council for the Humanities and Social Sciences, Combat Poverty and the Environmental Protection Agency. Geography also hosts a research seminar series involving invited speakers from Irish and UK universities.

There is a large and active group of postgraduate research students who are involved in research based in Ireland, Britain, continental Europe, the Mediterranean Islands, North America, Africa and Asia. Often this research is in collaboration with institutions overseas, such as the British Institute in Eastern

Africa and Tongji University, Shanghai. All postgraduates have their own office space and, if required, access to specialised laboratory facilities. Postgraduate students also enjoy easy access to other facilities on campus, including the recently upgraded main College libraries, high performance analytical and computing laboratories and the Sports Centre.

Those interested in following a postgraduate degree by research should first discuss their proposed research topic with an appropriate member of staff. Information on the research interests of staff is available at on the Geography website. Especially welcome are enquiries from those with a research interest in one of the following areas: cultural and historical geography; environmental archaeology; environmental attitudes and values; environmental change, including its human dimensions and the reconstruction, impacts and implications of past variability in sea-levels; environmental planning; geographical information systems; geomorphology and hydrology of limestone terrains; glacial geomorphology; groundwater and surface water hydrology; remote sensing; sand dunes and coastal conservation; transportation; and urban economic restructuring, housing and inner-city regeneration.



**GEOLOGY***Academic Staff Contact:*

Dr John R Graham

*Telephone:* +353-1-608 1074*Fax:* +353-1-671 1199*Academic staff numbers:* 9*Postgraduate numbers:* 19*Internet:* [www.tcd.ie/Geology](http://www.tcd.ie/Geology)

Research in the area of Geology is funded by a number of bodies including Trinity College, the EU, government agencies such as Enterprise Ireland and the Marine Institute, and the private sector, especially the hydrocarbon industry. There is considerable research activity in diverse fields. Much of the current research involves staff and research students working in the following broad areas:

- Basin analysis, sedimentology, stratigraphy and mineralisation: studies of Palaeozoic and Mesozoic successions in Ireland and adjacent offshore areas, porosity and permeability evolution of Irish carboniferous rocks and its bearing on the emplacement of zinc-lead mineralisation, vertebrate-bearing fluvial systems in the Japan Alps.
- Palaeontology and biostratigraphy: Upper Palaeozoic biostratigraphy and palaeobiogeography based on palynology and micropalaeontology, and taxonomic studies of bryozoa, crinoids and nautiloids.

- Elucidation of thermal histories: computer modelling of the cooling histories of meteorites and igneous dykes, experimental heating projects and maturation studies based on vitrinite reflectance, clay mineralogy/geochemistry and colour/fluorescence changes in palynomorphs and other microfossils.
- Groundwater quality and water resource management.
- Fault growth and fluid flow: fault zone structural and permeability architecture, fluid flow in fault zones and regional fracture networks, fault growth processes in porous sandstones, earthquake structural geology.
- Igneous petrology, volcanology and geochemistry: magmatic evolution of igneous rock suites and their phenocrysts; crystal isotope stratigraphy; age dating of igneous successions in the British/Irish Territory Province; volcanotectonics; analogue modelling of volcano structures and magma chamber processes.
- Modelling modern and fossil aquatic ecosystems using nitrogen and carbon isotopes. The petroleum geology of coastal Tanzania and evolution of the East African passive margin since the Cretaceous. Field and historical geology of the Isle of Arran, Scotland.

Staff are actively involved in the editing of national and international journals, serve on the editorial boards of a number of other journals, and routinely review manuscripts submitted for publication in a wide range of Earth Science publications. Important accounts of the history of Geology in Ireland have been published by staff, and there is ongoing historical research with special reference to geology and geologists in the College.

**PURE AND APPLIED MATHEMATICS***Academic Staff Contact:*

Professor Samson Shatashvili

*Telephone:* +353-1-608 1949*Fax:* +353-1-608 2282*Academic staff numbers:* 19 full-time*Postgraduate numbers:* 21 research, 19 taught*Internet:* [www.maths.tcd.ie](http://www.maths.tcd.ie)

Mathematics accepts suitably qualified students to read for the degree of M.Sc. or Ph.D. by research. There is also a taught M.Sc. course in High Performance Computing.

Areas of research which are open to study include computation: theoretical computing, numerical computing; pure mathematics: complex and functional analysis, differential geometry, operator theory and operator algebras, spectral

theory; theoretical physics: quantum field theory, string theory, lattice QCD, monopoles.

Students reading for the degrees of M.Sc. or Ph.D. are required to take such courses as are laid down by their supervisor. All students are required to discuss their research proposals with a relevant member of staff before submitting their application form.

### **MICROBIOLOGY**

*Academic Staff Contact:*  
Professor Cyril Smyth

*Telephone:* +353-1-608 1195

*Fax:* +353-1-679 9294

*Academic staff numbers:* 11

*Postgraduate numbers:* 32 research

*Internet:* [www.tcd.ie/Microbiology/](http://www.tcd.ie/Microbiology/)

Microbiology carries out basic and applied research in the area of molecular and cell biology of infectious diseases caused by bacteria, viruses, fungi and parasites. The work aims to elucidate the mechanisms by which pathogenic agents infect the host and evade host defences.

Current research programmes investigate how prokaryotic, eukaryotic and viral pathogens regulate the expression of virulence factors required for successful infection, how they colonise different niches within the

host, and how this information can be used to identify microbial targets which might be exploited to prevent or cure infection, either through rational design of drugs or vaccine development.

Housed in the Moyne Institute of Preventive Medicine, a building funded privately by the Normanby Trust, the area is fully equipped to support research in modern molecular microbiology. Research is funded by the Wellcome Trust and other medical charities, the EU, the Health Research Board, Enterprise Ireland, and by industry. There is a large and very active research community of academic staff, senior research fellows, postdoctoral fellows and graduate students. Also offered is a seminar programme of international speakers. The student Microbiological Society also organises a series of lectures by visiting speakers each year.

Graduate students intending to pursue a Ph.D. first serve a probationary period on the M.Sc. register, and are transferred to the Ph.D. register following satisfactory performance in the graduate education programme. The progress of each student is monitored by a committee of three academic staff members with whom the student meets every six months. Students are strongly encouraged to join learned societies relevant to their field of research and a departmental journal club to promote

self confidence and develop critical skills in dealing with the literature, and to foster an awareness of developments in areas of biology distinct from their potential as scientists to the maximum extent possible.

### **PHARMACY**

*Academic Staff Contact:* Ms Ingrid Hook  
*Telephone:* +353-1-608 2802

*Fax:* +353-1-608 2804

The area of Pharmacy at Trinity College Dublin was the first centre for pharmaceutical education in Ireland. It was established in 1977 and moved onto the main campus in 1997. Ms Ingrid Hook is the acting Head of the School.

The area consists of Pharmaceutics and Pharmaceutical Technology; Pharmaceutical Chemistry; Pharmacognosy; Pharmacology; and Practice of Pharmacy.

### **Pharmaceutics and Pharmaceutical Technology**

*Fax:* +353-1-608 2783

*Email:* [pharmtec@tcd.ie](mailto:pharmtec@tcd.ie)

*Internet:* [www.tcd.ie/Pharmaceutics/](http://www.tcd.ie/Pharmaceutics/)

In addition to a large undergraduate teaching laboratory and model pharmacy dispensary, the division has a purpose built unit operations facility for

pharmaceutical technology and an aseptic suite for sterile product production, TPN and cytotoxic drug preparation. There are specific research laboratories for formulation science, biopharmaceutics, cell culture, thermal analysis and micromeritics.

The division provides courses on formulation science, dosage form design, pharmaceutical technology, pharmaceutical microbiology and biopharmaceutics.

Research is directed primarily at the design of drug delivery systems in order to improve the transport of drugs to target sites in the body, with the consequent enhancement in therapeutic effectiveness and reduction in side effects. This necessitates both basic and applied research. The division's research interests may be summarised as follows:

- Prediction of drug release from solid dosage forms for human and veterinary use
- Mechanisms of drug transport across biological membranes including the gastrointestinal tract; biological barriers to peptide absorption
- Transdermal drug delivery mechanisms of drug transport; local and systemic delivery
- Technological aspects of drug delivery system design/sustained

release technology based on microencapsulation, tablet, implant, transdermal systems and bioadhesive products; aerosol systems and characterisation

#### ■ Pharmacy practice.

The division has ongoing collaborative research in a number of the above areas within Pharmacy and with Science and Health Sciences. It has extensive contacts with the pharmaceutical industry with which it also undertakes collaborative projects and this represents a source of considerable funding for research. Some of these contacts are with Materials Ireland (MI) through the polymer research unit in College and also BRI through the National Pharmaceutical Biotechnology Centre. Some research products have been commercialised and some have been patented and thus are a source of revenue for College.

Outside the University, the division has links with University College Dublin, University of London UK, University of Bath UK, University of Saarland Germany and University of Michigan, USA.

### Pharmaceutical Chemistry

*Fax:* +353-1-608 2793

*Internet:* [www.tcd.ie/Pharmaceutical\\_chemistry/](http://www.tcd.ie/Pharmaceutical_chemistry/)

The area is fully equipped with a number of laboratories for specialised purposes e.g. drug synthesis, chromatography and spectroscopy. Equipment for undergraduate and postgraduate teaching and research includes the following spectroscopic and chromatographic instrumentation: IR, UV, N.M.R., Fluorescence, G.C., M.P.L.C., H.P.L.C., Ion Chromatography, Atomic Absorption, Capillary Electrophoresis, GC-MS. Access to other facilities i.e.



High Resolution Mass Spectrometry, N.M.R., (400MHz) and X-Ray is available in the University and collaborating institutions.

The area has ongoing collaborative research in a number of fields within the College, other Universities and industry, for example Queen's University Belfast, University of Limerick, and overseas institutions including the University of Siena, Italy, and the University of Regensburg, Germany.

The area is engaged in research in the following areas: analysis of pharmaceutical materials; impurity profiling of pharmaceuticals e.g. cardiovasculars; design of stability studies for product registration; drug design and development; methodologies for the synthesis, characterisation and chemical transformations of pharmacologically active heterocycles with antidepressant activity; design, synthesis, evaluation and computer modelling of novel antiestrogens; impurity profiling of amphetamine type drugs of abuse; mechanism of action of anti-inflammatory drugs; computer modelling of platelet activating agents; liquid chromatographic method development for cardiovascular drugs; the application of molecular orbital studies to the conformations of muscarinic agonists.

Research is funded by Enterprise Ireland, the Health Research Board, BioResearch Ireland, the Wellcome Trust and the pharmaceutical industry.

### **Pharmacognosy**

*Fax:* +353-1-608 2804

*Internet:* [www.tcd.ie/Pharmacognosy/](http://www.tcd.ie/Pharmacognosy/)

The major research orientations of the division are in the phytochemical and biological evaluation of medicinal plants. Both native (*Taxus*, *Drosera*, *Ajuga*, *Centranthus*) and foreign plants (*Papaver*, *Dionaea*, *Leontopodium*) are being examined as potential sources of novel bio-active compounds, especially with anti-inflammatory, anti-cancer, anti-malarial and anti-acetylcholine esterase activities. Compounds of research interest include alkaloids, flavanoids, peptides, terpenes and naphthoquinones. In its drug discovery programmes, the area is also involved in the chemical modification and bioactivity evaluation of these compounds. Biotechnological areas of study include cell suspension and transformed root cultures. Collaboration with Botany allows the molecular investigation (i.e. DNA profiling) of medicinal plants. Method validation and quality control procedures for herbal medicines as well as natural and synthetic drugs of abuse are also of interest. Practice related areas of research involve aspects dealing with the pharmaceutical care of drug addicts.

The area is fully equipped for the cultivation of algal and plant cell cultures as well as intact and micro-propagated plants. It is equipped with up-to-date extraction and solvent handling facilities as well as a wide range of chromatographic equipment including GC, GC-MS, HPLC, and MPLC. Standard spectroscopic techniques are available within the area and University (3002 400MHz NMR) or in collaborating institutions (400 MHz NMR and High Resolution Mass Spectrometry).

Research links exist with other areas within the University and third level institutions both in Ireland and Europe. In addition there are research links with Arboreta in Ireland, UK and Europe, as well as industrial sponsors.

Research funding has been obtained nationally from Enterprise Ireland, the Royal Irish Academy and internationally from the EU, as well as industry.

### **Pharmacology**

*Fax:* +353-1-608 2821

*Internet:* [www2.tcd.ie/Pharmacology/](http://www2.tcd.ie/Pharmacology/)

The area has excellent facilities for teaching and research and a new base for expansion of postgraduate research activity. It contributes to taught Postgraduate M.Sc. courses in Pharmaceutical Analysis, Hospital Pharmacy and to the Diploma/M.Sc. in Community Pharmacy and to the M.Sc. in Sports Medicine.

There are two active research groups. The Polyamine Research Group is concerned with the functional role of polyamines in the central nervous system and with the development of novel polyamine antagonists as novel therapies for epilepsy and stroke.

The Immunomodulator Research Group, is commercially sponsored and is concerned with the development of novel immunosuppressants from lead molecules of fungal origin. Approximately 200 NCE's have been synthesised by this group and promising novel agents with potential role in the treatment of diseases of auto-immune origin have been identified.

There are close associations with the Centre for the Practice of Pharmacy.

The division is particularly well equipped to carry out studies on centrally acting drugs and on the novel entities devised by the immunomodulator group. It has a wide range of pharmacological recording equipment for measurement of blood pressure, ECG, EEG and smooth muscle contraction, electrophysiological patch clamp recording equipment and modern automated high pressure liquid chromatography systems.

Collaborative work currently involves University Departments in Canada, the USA and Brazil and several research areas within College.

Applications for postgraduate studies (M.Sc. or Ph.D. by research) are particularly welcome.

### **Practice of Pharmacy**

The division is housed in the School of Pharmacy buildings in College. It contributes to the Pharmaceutical Technician Diploma, M.Sc. in Community Pharmacy and M.Sc. in Hospital Pharmacy. Students from the M.Sc. in Community Pharmacy undertake a research project in the area and are often supervised by staff from the division.

Access to support in data processing and statistical analysis is available in the division and in the College; tools such as SPSS and other software packages are available.

Postgraduate research in the areas of pharmaceutical care, drug utilisation and compliance/concordance, health promotion, medication safety and health policy is ongoing. Collaborative projects relating to the pharmaceutical care of the elderly and to medication review have been carried out; the former was an EU collaborative project and links established with other EU universities and research institutes are being developed through evaluation of other projects and through memberships of Pharmaceutical Care Network Europe. Research has been carried out in collaboration with health

service institutions such as health boards and Trinity teaching hospitals and these links are continually being developed. Health Research Board funding for some of these projects was obtained. Collaboration with other research areas within Trinity College also occurs on a project by project basis.

Applications to undertake full-time of part-time pharmacy practice research at either Masters or doctoral level are invited.

### **PHYSICS**

*Academic Staff Contact:*

Professor Denis Weaire

*Telephone:* +353-1-608 1675

*Fax:* +353-1-671 1759

*Academic staff numbers:* 26

*Postgraduate numbers:* 80 research

*Internet:* [www.tcd.ie/Physics/](http://www.tcd.ie/Physics/)

Trinity College's Physics area is the most research-active in Ireland. Annual research funding is in excess of millions of Euro and typical annual publications exceed 130 peer-reviewed papers, with high attendant citations and patent production. It hosts three Fellows of the Royal Society, namely Professors John Coey, Denis Weaire and John Pethica, recipients of the Charles Chree Medal of the Institute of Physics, the Cecil Powell Medal of the European Physical Society, the Hughes Medal of the Royal



Society and the Holweck Medal of the Institute of Physics, respectively.

Physics has a long and distinguished history of teaching and research. Richard Helsham, appointed in 1724 as the original Erasmus Smith's Professor of Natural and Experimental Philosophy, was the first to lay out Newton's methods in a form suitable for the undergraduate. More recent holders of the Chair include George Francis Fitzgerald, famous for the Lorentz-Fitzgerald contraction, and Ernest Thomas Sinton Walton, the only Irish recipient of a Nobel Prize in Science. This tradition is maintained today through a very successful research program and highly respected degree courses.

Located in the Fitzgerald Building (1905) and the Sami Nasr Institute of Advanced Materials Science (opened in 2001), it is also host to the prestigious first phase of Science Foundation Ireland Nanotechnology projects, attracting world-class researchers and establishing internationally competitive facilities; additional laboratories are planned for the hi-tech CRANN building to be opened in 2006.

Research is largely focused in the area of new materials. A recent research highlight is Professor Donegan's work on high efficiency quantum dot light emitters, with potential applications as "optical tweezers" and elements of quantum computers. Dr Coleman, in

collaboration with researchers at the University of Texas, Dallas (UTD), has developed a new process for the continuous spinning of composite fibres of carbon nanotubes. The toughness of the new fibres is more than four times that of spider silk and seventeen times that of the Kevlar used in bullet-proof vests. Following his discovery of excess magnetisation in meteoritic graphite, Professor Coey has demonstrated contact-induced magnetisation in carbon nanotubes, also confirmed theoretically by Drs Sanvito and Ferreira.

Research has spawned a number of campus companies and contributes to the technology-transfer Programmes in Advanced Technology (PATs), e.g. Optronics Ireland and Materials Ireland. More recently, the area is host to the prestigious first phase of Science Foundation Ireland Nanotechnology projects.

Graduate students in Physics join an area that is both academic and enterprising; the student body is international, reflecting the contacts between Physics and an extensive network of external collaborations. It provides both educational and financial support to graduate students.

## ZOOLOGY

*Academic Staff Contact:*  
Professor Celia Holland

*Telephone:* +353-1-608 1063

*Fax:* +353-1-677 8094

*Academic staff numbers:* 9 full-time

*Postgraduate numbers:* 37 research

*Internet:* [www.tcd.ie/Zoology/](http://www.tcd.ie/Zoology/)

Zoology provides comprehensive graduate training in animal biology through M.Sc. (by research) and Ph.D. degrees. It is also actively involved in the taught M.Sc. in Environmental Sciences. Research is organised into Environmental and Medical Zoology divisions. The former concentrates on interactions of animals and their environment and involves freshwater biology, marine biology, wildlife and behavioural ecology groups. The research of the Medical Zoology division is concerned with pathogenic animals or uses animal models for the study of general biological phenomena. Three groups – molecular neurobiology, developmental biology, and parasitology – constitute this division, while emphasis on evolutionary biology overlaps all groups. Staff research interests and activities are described on the Zoology website.

The Zoology Building contains suites of laboratories equipped appropriately for the main research specialisations, and

houses a small museum, with a wide range of teaching material, and important reference collections. Constant temperature rooms and an aquarium, with freshwater and seawater supplies, enable some animals to be held in the building, while birds and mammals are housed in the specialised animal facility of the Bio Resources Centre.

A wide variety of research equipment is available, including facilities for tissue culture, biochemical, molecular biological, genetic and chemical analyses, immunohistochemistry at light and electron microscopical levels, image analysis and quantification in light and electron microscopy. General fieldwork on terrestrial vertebrates is supported by specialist equipment used for tracking. Electrofishing gear, boats and SCUBA are available for aquatic studies. Transportation for fieldwork is provided by three departmental vehicles.

Zoology has close links with many external bodies including the Irish Sea Fisheries Board (BIM), the Marine Institute's Aquaculture and Catchment Management Services (Newport, Co. Mayo), the EPA, the Heritage Council, Coillte, the National Parks and Wildlife Service and Dublin Zoo. The research group based at the Zoo carries out mostly behavioural studies on a range of species relating to environmental enrichment.

## M.Sc. COURSES

### COMMUNITY PHARMACY (P.Grad.Dip./ M.Sc.)

COURSE CODES 659/658

Entry via P.Grad.Dip. For further details see Diploma section below.

### ENVIRONMENTAL SCIENCES (M.Sc./P.Grad.Dip.)

COURSE CODE 169/651

*Course Coordinator:* Dr Kenneth Irvine

*Duration:* One year, full-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 1638

*Email:* [cenv@tcd.ie](mailto:cenv@tcd.ie)

*Internet:* [www.tcd.ie/Centre\\_for\\_the\\_Environment/esmsc.html](http://www.tcd.ie/Centre_for_the_Environment/esmsc.html)

This full-time, intensive degree course is of honors standard and is intended for established administrative and scientific workers and new graduates with an appropriate biological/earth science background. It is divided into two parts; a program of 16 taught modules followed by a five-month research project. There is also the possibility to opt for a diploma course in Environmental Sciences, consisting of the taught modules only.

The course provides students with a wide range of knowledge and skills to apply to the expanding subject of Environmental Science. The course aims to provide a firm scientific understanding in order to provide the capability to respond to Environmental Regulations and work effectively within the complex discipline of Environmental Management. The course provides a foundation of understanding of current environmental policies and legislation, and builds upon this with practical and theoretical courses that include air pollution, land use, ocean and coastal management, water resources and pollution, conservation management, waste management and environmental sustainability. Theory and practice are closely related to develop field, analytical, and presentation skills. The course provides the opportunity to develop interests in particular areas of environmental sciences through tutorial-type teaching and an extended desk study.

Following successful completion of the taught part of the course students continue on to a closely supervised research project intended to expand on the skills and knowledge base acquired earlier.

Previous research projects include: an assessment of the toxicity of acid mine drainage; a review of causes of deforestation of African tropical rain

forests; atmospheric heavy metal deposition in Ireland: estimation based on moss analysis; environmental education in the Irish second level school system; the application of settleability tests for the control of activated sludge plants; vulnerability mapping of two Karsitic spring catchments in County Clare with the aid of geographical information systems (GIS); the sustainability of a car-dependant settlement pattern: an evaluation of rural housing in the Dublin region.

### **HIGH PERFORMANCE COMPUTING (M.Sc.)**

COURSE CODE 626

*Course Coordinator:*

Dr Michael Peardon

*Duration:* One year, full-time

*Closing Date:* 31 July 2005, (late applications may be considered if places remain available after the closing date.) Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2

*Telephone:* +353-1-608 1485

*Fax:* +353-1-608 2282

*Email:* [mjp@maths.tcd.ie](mailto:mjp@maths.tcd.ie)

*Internet:* [www.maths.tcd.ie/hpcmsc](http://www.maths.tcd.ie/hpcmsc)

The M.Sc. course provides practical training in the emerging high performance computing technology sector. The core modules of the course cover the hardware and software technology used in large-scale scientific, numerical and technical computation including hardware and software technology, processors, memory and cache, code optimisation, parallel architectures and programming parallel computers. The skills learnt in these lectures will be applied in a continually assessed programming laboratory. Optional modules include classical simulation techniques, stochastic methods and financial applications.

The course includes a strong practical element. Students have unlimited use of a dedicated computing laboratory and access to the facilities of the Trinity College Centre for High Performance Computing (TCHPC). These resources are being upgraded shortly to a very large-scale system with a state-of-the-art data visualisation suite. The TCHPC presently maintains a Linux parallel computing cluster, which consists of 64 processors on 32 two-way SMP nodes, connected by a dedicated high-speed network.

The successful graduate will have career opportunities in mathematical modelling, simulation and forecasting, data-base mining and resource

management. The techniques covered during the year will allow students to work in advanced software development, including parallel and concurrent software applications, using the MPI, OpenMP and pthread programming libraries. Technical computing methods are widely used in research into mathematics, physics, chemistry, engineering and finance, providing a wide range of options for the student wishing to go on to Ph.D. studies and pursue an academic career.

This course may be of interest to science, engineering and mathematics graduates who have a good mathematical background together with



some computing experience. Enquiries are also welcome from mathematically trained technical staff in business and industry who wish to develop expertise in modern high performance computing technology. A primary degree at upper second class level or higher is normally required.

### **HOSPITAL PHARMACY (M.Sc.)**

COURSE CODE 222

Next entry January 2006  
(with Health Sciences)

*Course Coordinator:* Dr Aisling O'Leary,  
B.Sc.(Pharm.), M.P.S.I.

*Duration:* Two years, part-time

*Closing Date:* 1 September 2005, for admission in the following January. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-416 2586;

*Secretary:* +353-1-416 2467

*Fax:* +353-1-473 0596;

*Email:* aoleary@stjames.ie

*Internet:* [www.tcd.ie/Pharmacy/msc.htm](http://www.tcd.ie/Pharmacy/msc.htm)

The M.Sc. in Hospital Pharmacy programme consists of a practice-based teaching programme complemented by lectures, tutorials and workshops. The course provides students with the knowledge and skills necessary to undertake all aspects of hospital

pharmacy. Subjects covered include therapeutics, pharmacoeconomics, purchasing skills, good manufacturing practice and aseptics, immunology and biotechnology. Management issues as they relate to hospital pharmacy and the broader context of healthcare systems are also addressed.

Coursework is underpinned by a comprehensive practice-based element where students rotate through a variety of specialist areas to ensure that broad, practical experience is obtained in such areas as drug information, dispensary, compounding and clinical specialities.

Assessment is on a continual basis through formal examinations, written assignments, oral presentations and clinical progress reports. Students are required to undertake a research project and must demonstrate research competency. Research and methodological skills are addressed in a dedicated module that also encompasses statistical evaluation.

This is a two-year, part-time course with lectures and tutorials taking place on one half day per week in central locations.

Courses are conducted on a bi-annual basis and the next entry for students will be in January 2006. Eligible candidates must hold a first or second-class honors degree in pharmacy and be registered with the Pharmaceutical

Society of Ireland. All students are based as full-time pharmacists in dedicated teaching hospitals in Ireland.

### **PHARMACEUTICAL ANALYSIS (M.Sc./P.Grad.Dip.)**

COURSE CODE 633/634

*Course Director:* Dr John M. Clancy

*Closing Date:* 31 July 2005. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2790

*Fax:* +353-1-608 2793

*Email:* [jclancy@tcd.ie](mailto:jclancy@tcd.ie)

*Internet:* [www2.tcd.ie/Pharmaceutical\\_chemistry/chmm.htm](http://www2.tcd.ie/Pharmaceutical_chemistry/chmm.htm)

The course involves a comprehensive treatment of the science and technology of pharmaceutical analysis with particular emphasis on the regulatory environment in which the pharmaceutical industry operates. It is intended for suitably qualified graduates currently working in or aspiring to work in the pharmaceutical industry – in particular non-pharmacy graduates employed in quality control or quality assurance roles requiring specialised training, retraining or upgrading of skills. The course may also be attractive to technical managers in regulatory affairs, product development and other related areas. The objective is to equip

graduates with the appropriate analysis skills required by the pharmaceutical and veterinary manufacturing industries.

Applicants are accepted, subject to the availability of places, from holders of honors degrees in a relevant Science discipline (e.g. Pharmacy, Chemistry, Analytical Chemistry, Microbiology, Biochemistry, Pharmacology and other appropriate primary honors degrees e.g. I.T., Medicine or Veterinary). Equivalent primary and/or postgraduate qualifications are considered, particularly with relevant professional experience. Applications will be evaluated by the Course Director in consultation with the Course Committee and Dean of Graduate Studies as appropriate.

The course is available for full-time study over one calendar year or part-time over two years and consists of lectures, workshop and laboratory work. Part-time teaching is normally scheduled for Fridays during academic terms. The course comprises lectures, workshops, seminars, laboratory work, written assignments and factory visits. In addition each student must write a major essay on a designated topic in the area of pharmaceutical analysis.

Students proceeding to a M.Sc. degree will be required to undertake a research project and present a detailed scientific report at the end of the course.

The course consists of eight basic modules: regulatory aspects of pharmaceutical analysis, statistics, GLP chromatographic analysis, spectroscopic and physical methods of analysis, pharmacopoeial methods of drug analysis, analysis of low level drug analysis, specialised pharmaceutical methods of analysis, biological and pharmacological methods and pharmaceutical formulation.

The taught modules are supported by lectures and workshops on presentation and research skills and visits to industrial laboratories. The course is taught mainly by College staff, although there is a contribution from specialist visiting lecturers. The research project may be conducted either in the School of Pharmacy or at the student's place of employment but in either case supervision is exercised by a member of the School of Pharmacy academic staff.

Overall assessment of candidates is based on tutor marked assignments (TMAs) during the course work and written examinations in May/June each year. Credits are available for all assignments including laboratory reports. The M.Sc. project report should be of 20,000 words and is examined in September. Candidates must successfully complete the taught component of the course at the Trinity term examinations, before proceeding to the M.Sc. project. Provision

is available for a supplemental examination in September each year if required. A reasonable attempt is required in all aspects of the examination process. A pass mark of 40% is normally required but compensation is applied where appropriate.

### **PHARMACEUTICAL MANUFACTURING TECHNOLOGY (P.Grad.Dip./M.Sc.)**

COURSE CODE 202

Entry via P.Grad.Dip. For details see entry in Diploma section below.

### **PHARMACEUTICAL TECHNOLOGY (M.Sc./P.Grad.Dip.)**

COURSE CODES 635/636

*Course Coordinator:* Dr Majella Lane

*Duration:*

One year, full-time, two years, part-time

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2785

*Fax:* +353-1-608 2783

*Email:* lanem@tcd.ie

*Internet:* [www.tcd.ie/Pharmaceutics/mscpt.html](http://www.tcd.ie/Pharmaceutics/mscpt.html)



The main aim of the course is to give students currently working or intending to work in the human and veterinary pharmaceutical industries an understanding of the fundamentals of pharmaceutical technology relevant to product formulation, development and production. In addition to theoretical knowledge, graduates are equipped with practical experience and research methodology that enables them to become involved in research and development in these areas.

Applications are accepted from graduates who hold a good honors degree in a relevant science discipline, hold an equivalent qualification with relevant professional experience or otherwise satisfy the course admission committee that they have the ability to succeed and benefit from the course.

### POSTGRADUATE DIPLOMAS

Some Masters courses have the option of a Postgraduate Diploma in cases where the taught course has been satisfactorily completed but a dissertation has not been submitted. Such PGrad.Dip. courses are not listed below as they are not open to entry as separate options from their parent Masters course i.e. students apply for entry to the appropriate Masters course.

### COMMUNITY PHARMACY (PGrad.Dip./M.Sc.)

COURSE CODES 659/658

*Course Coordinator:* Dr Sheila Ryder

*Duration:* PGrad.Dip. two years part-time; M.Sc. additional year, part-time.

*Closing Date:* 1 October 2005, for entry January 2006. Two references are required upon application – either two academic references or one academic and one work-related reference.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2786

*Fax:* +353-1-608 2524

*Email:* sryder@tcd.ie

*Internet:* [www.tcd.ie/Pharmacy/dipmsc.htm](http://www.tcd.ie/Pharmacy/dipmsc.htm)

This course is intended to help community pharmacists to develop their clinical, managerial and research skills, meet duties imposed by Clause 9 of the Community Pharmacy Contractor Agreement, extend their professional role and contribute to patient care as part of the primary health care team. Because of their distance-learning format, participants can continue in full-time employment throughout the course.

Participants initially enter at diploma level, and on successful completion of core material may choose either to graduate with a Postgraduate Diploma in Community Pharmacy or to apply to transfer to the M.Sc. in Community Pharmacy.



Core material comprises a series of modules covering clinical, social and business aspects of pharmacy practice, with opportunities for specialisation in particular fields. Pharmacists who advance to M.Sc. level undertake an additional module on research methods and perform a research project relevant to community pharmacy practice.

### **PHARMACEUTICAL ANALYSIS (P.Grad.Dip./M.Sc.)**

COURSE CODE 634/633

Participants initially enter at diploma level. For more details see entry on M.Sc. above.

### **PHARMACEUTICAL MANUFACTURING TECHNOLOGY (P.Grad.Dip./M.Sc.)**

COURSE CODE 202

*Course Coordinator:* Ms Lorna Loughrey – all enquiries should be made to the Course Coordinator at +353-608 2811

*Duration:* Two years, part-time

*Closing Date:* 31 July for admission in the following January. Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 2812/2811

*Fax:* +353-1-608 2813

*Email:* [dippmt@tcd.ie](mailto:dippmt@tcd.ie)

*Internet:* [www.tcd.ie/Pharmacy/crsd.htm](http://www.tcd.ie/Pharmacy/crsd.htm)

The Postgraduate Diploma course is presented in a distance learning form and extends over two years. Participants should be in full-time employment either in the pharmaceutical industry or with the pharmaceutical regulatory authority at the time of application and for the duration of the course.

Course content is specified in Human and Veterinary Directives 2001/83/EC and 2001/82/EC. Participants receive nine module books in each year of the course. The general areas covered are: pharmaceutical, medicinal and analytical chemistry; pharmaceutical processing and drug action, uses and assessment. Participants must also undertake a number of manufacturing facility visits.

The Postgraduate Diploma is recognised by the Irish Medicines Board as fulfilling the educational requirements related to registration as a 'Qualified Person'.

Students who are eligible to progress to an M.Sc. Degree, generally undertake a dissertation in the second year of the course.

### **POLYMER SCIENCE AND TECHNOLOGY (P.Grad.Dip.)**

COURSE CODE 642

*Course Coordinator:* Dr Valerie Barron

*Duration:* M.Sc. one year, part-time;  
P.Grad.Dip. six months

*Closing Date:* 30 June 2005.

Applications should be addressed directly to the Graduate Studies Office, Arts Building, Trinity College, Dublin 2.

*Telephone:* +353-1-608 3595

*Fax:* +353-1-671 1759

*Email:* [barronv@tcd.ie](mailto:barronv@tcd.ie)

*Internet:* [www.tcd.ie/Physics/Courses/  
PolymerMSc/](http://www.tcd.ie/Physics/Courses/PolymerMSc/)

This program is aimed at developing skills in polymer science and technology, providing graduates with an advanced technological management qualification required for high level technical and/or management positions within the polymer and plastics industry.

The course will cover the following key areas: polymer chemistry and physics; structure property relationships; polymer characterisation techniques; polymer additives technology; polymer processing and business management.





# Postgraduate Degree and Diploma Fees

# Postgraduate Degree and Diploma Fees

The College Calendar Part 1 contains the general regulations applicable to all College charges. The following list of fees is extracted from that publication and is given for reference purposes only. (Applicants should note that there are a number of other charges which may be levied in certain circumstances). All students must pay a students' union levy each year in addition to the fees scheduled below. The College Calendar Part 1, College Charges section is to be taken as definitive in the event of any discrepancy or conflict with the material reproduced below. The Board of Trinity College, Dublin, is not bound by any error in, or omission from the following.

## SUMMARY OF POSTGRADUATE DEGREE FEES

Postgraduate students not registered for higher degrees but admitted for one year or one term in accordance with admission requirements, pay the fees appropriate to the area in which they are working: One year students based in the Arts (excluding the Department of Psychology) and Business, Economic and Social Studies: €3,661 for EU or €11,252 for non-EU One year students based in Engineering and Systems

Sciences, Health Sciences, Science and in Psychology: €4,948 for EU or €14,739 for non-EU One-term students admitted to any faculty will be required to pay a term fee as follows: €1,480 for EU or €4,574 for non-EU

The fees must be paid before 1 September or by the date requested if later.

Students may be admitted to attend one specific course of lectures for a term on payment of a fee of €510. To attend more than one course of lectures students must register and pay the fee prescribed for one-term students. All fees mentioned in this paragraph must be paid before 1 September for Michaelmas term, before 1st December for Hilary term and before 1 March for Trinity term.

There is a conferring fee of €85 payable by all students when they apply for Commencements.

**Please note that all fees quoted are for the academic session 2004/05 and are likely to rise in the academic year 2005/06.**



**POSTGRADUATE DEGREE FEES**

|                                   |  | <b>EU<br/>Euro €</b> | <b>Non-EU<br/>Euro €</b> |
|-----------------------------------|--|----------------------|--------------------------|
| B.D.                              | qualifying test fee (when applicable)                          | 200                  |                          |
|                                   | examination fee (for six divisions)<br>payable on registration | 900                  |                          |
|                                   | dissertation or special examination fee                        | 714                  |                          |
| D.D.                              | examination and degree fee                                     | 2,000                |                          |
| LL.D.                             | examination and degree fee                                     | 2,000                |                          |
| Litt.D.                           | examination and degree fee                                     | 2,000                |                          |
| Mus.D.                            | examination and degree fee                                     | 2,000                |                          |
| Sc.D.                             | examination and degree fee                                     | 2,000                |                          |
| M.Ch., M.A.O., and M.D.           | examination and degree fee                                     | 2,889                |                          |
|                                   | re-registration fee (see note 1)                               | 302                  |                          |
| M.Dent.Sc.                        | examination and degree fee                                     | 2,889                |                          |
|                                   | re-registration fee (see note 1)                               | 302                  |                          |
| M.Dent.Ch. in Orthodontics        | annual fee   | 15,596               | 30,012                   |
| M.Dent.Ch. (taught)               | annual fee   | 15,596               | 30,012                   |
| M.A.I. (excluding course)         | examination and degree fee                                     | 2,889                |                          |
|                                   | re-registration fee (see note 1)                               | 302                  |                          |
| M.A.I. (course)                   | annual fee (see note 2)  | 4,364                | 15,587                   |
| M.B.A.                            | annual fee (see note 2)  | 20,515               | 20,515                   |
| M.Ed.                             | annual fee (1st year)  | 3,504                | 11,984                   |
|                                   | annual fee (2nd year)  | 3,504                | 7,441                    |
|                                   | annual fee (subsequent years) (see note 3)                     | 1,854                | 3,728                    |
| M.Litt.                           | annual fee (1st and 2nd years)                                 | 3,466                | 7,425                    |
|                                   | annual fee (subsequent years) (see note 3)                     | 1,837                | 3,712                    |
| LL.M.                             | annual fee (see note 2)  | 5,510                | 13,962                   |
| M.Phil. in Anglo-Irish Literature | annual fee (see note 2)  | 4,468                | 12,035                   |
| M.Phil. in Creative Writing       | annual fee (see note 2)  | 5,408                | 12,335                   |

|  |  | <b>EU<br/>Euro €</b> | <b>Non-EU<br/>Euro €</b> |
|--|--|----------------------|--------------------------|
| M.Phil. in Early Irish                               | annual fee (see note 2)  | 5,006                | 11,868                   |
| M.Phil. in Ethnic and Racial Studies                 | annual fee (see note 2)  | 5,733                | 13,616                   |
| M.Phil. in German Literature and Language Pedagogy   | annual fee (full-time) (see note 2)<br>annual fee (part-time) (see note 2) | 4,152<br>2,570       | 10,919<br>6,712          |
| M.Phil. in Irish Art History                         | annual fee (see note 2)  | 3,692                | 9,167                    |
| M.Phil. in Irish Theatre and Film                    | annual fee (see note 2)  | 4,549                | 11,769                   |
| M.Phil. in Linguistics and Applied Linguistics       | annual fee (see note 2)<br>annual fee (2nd year part-time) (see note 2)    | 4,468<br>1,651       | 12,035<br>3,834          |
| M.Phil. in Literary Translation                      | annual fee (see note 2)  | 4,366                | 11,760                   |
| M.Phil. in Medieval History                          | annual fee (see note 2)  | 5,028                | 11,681                   |
| M.Phil. in Medieval Language, Literature and Culture | annual fee (see note 2)  | 4,475                | 10,821                   |
| M.Phil. in Music and Media Technologies              | annual fee (see note 2)  | 5,613                | 13,484                   |
| M.Phil. in Popular Literature                        | annual fee (see note 2)  | 5,392                |                          |
| M.Phil. in Psychoanalytic Studies                    | annual fee (see note 2)  | 5,617                | 12,035                   |
| M.Phil. in Reconciliation Studies                    | annual fee (full-time)<br>annual fee (part-time)                           | 4,795<br>2,782       | 11,276<br>6,372          |
| M.Phil. in Reformation and Enlightenment Studies     | annual fee (see note 2)  | 4,570                | 12,035                   |
| M.Phil. in Social Work Research                      | annual fee (see note 2)  | 4,416                | 15,587                   |
| M.Phil. in Speech and Language Processing            | annual fee (see note 2)<br>annual fee (2nd year part-time) (see note 2)    | 4,468<br>1,651       | 12,035<br>3,834          |
| M.Phil. in Textual and Visual Studies                | annual fee (see note 2)  | 3,883                | 11,575                   |
| M.Phil. in Women's Studies                           | annual fee (see note 2)  | 5,257                | 10,723                   |
| M.Phil. (Ecum.)                                      | annual fee (full-time)<br>annual fee (part-time)                           | 4,795<br>2,782       | 11,276<br>6,372          |
| M.Phil. (Peace Studies)                              | annual fee (full-time)<br>annual fee (part-time)                           | 4,795<br>2,782       | 11,276<br>6,372          |

|   |  | <b>EU<br/>Euro €</b> | <b>Non-EU<br/>Euro €</b> |
|---|--|----------------------|--------------------------|
| M.Sc.   | annual fee (1st and 2nd years)             | 4,114                | 8,840                    |
|   | annual fee (subsequent years) (see note 3) | 2,160                | 4,418                    |
| M.Sc. (courses)   | annual fee (see note 2)                    | 4,364                | 15,587                   |
| M.Sc. in Applied Social Research                                | annual fee (see note 2)                    | 6,000                | 12,000                   |
| M.Sc. in Bioengineering   | annual fee (1st, 2nd and 3rd years)        | 5,498                | 13,431                   |
| M.Sc. in Cardiac Rehabilitation                                 | annual fee (see note 2)                    | 5,880                |                          |
| M.Sc. in Cardiology   | annual fee (see note 2)                    | 5,034                | 27,953                   |
| M.Sc. in Child and Adolescent<br>Analytic Psychotherapy         | annual fee (see note 2)                    | 3,155                | 13,225                   |
| M.Sc. in Child Protection and Welfare                           | annual fee (see note 2)                    | 4,362                | 15,587                   |
| M.Sc. in Civil Engineering                                      | annual fee (see note 2)                    | 4,364                | 15,587                   |
| M.Sc. in Clinical<br>Biochemistry and Biomedical Sciences       | annual fee                                 | 4,205                | 15,587                   |
|   | annual fee (3rd year part-time)            | 3,990                | 15,587                   |
| M.Sc. in Cognitive Psychotherapy                                | annual fee (see note 2)                    | 8,229                | 14,998                   |
| M.Sc. in Community Pharmacy                                     | annual fee (see note 2)                    | 4,114                | 8,840                    |
| M.Sc. in Computer Science<br>(Networks and Distributed Systems) | annual fee (see note 2)                    | 4,362                | 15,587                   |
| M.Sc. in Computer Science<br>(Ubiquitous Computing)             | annual fee (see note 2)                    | 4,187                | 12,562                   |
| M.Sc. in Counselling Psychology                                 | annual fee (1st year)                      | 9,875                | 14,661                   |
|   | annual fee (2nd year)                      | 8,635                | 14,378                   |
| M.Sc. in Drug and Alcohol Policy                                | annual fee (see note 2)                    | 4,024                | 15,587                   |
| M.Sc. in Economic Policy Studies                                | annual fee (see note 2)                    | 9,007                | 17,952                   |
| M.Sc. in Economics  | annual fee (see note 2)                    | 4,800                | 9,600                    |
| M.Sc. in Educational Guidance<br>and Counselling                | annual fee (see note 2)                    | 4,194                |                          |
| M.Sc. in Educational Management                                 | annual fee (see note 2)                    | 4,298                | 11,805                   |
| M.Sc. in Environmental Sciences                                 | annual fee (see note 2)                    | 4,364                | 15,587                   |
| M.Sc. in Exercise Physiology                                    | annual fee (see note 2)                    | 5,624                | 10,690                   |

|  |                                     | <b>EU</b><br><b>Euro €</b> | <b>Non-EU</b><br><b>Euro €</b> |
|--|-------------------------------------|----------------------------|--------------------------------|
| M.Sc. in Gerontological Nursing                  | annual fee (full-time) (see note 2) | 6,900                      | 13,506                         |
|  | annual fee (part-time) (see note 2) | 3,600                      | 10,015                         |
| M.Sc. in Health Informatics                      | annual fee (see note 2)             | 4,365                      | 9,616                          |
| M.Sc. in Health Services Management              | annual fee (1st year) (see note 2)  | 7,259                      | 15,473                         |
|  | annual fee (2nd year) (see note 2)  | 6,756                      |                                |
| M.Sc. in High Performance Computing              | annual fee (see note 2)             | 4,767                      | 10,245                         |
| M.Sc. in Hospital Pharmacy                       | annual fee (see note 2)             | 3,646                      | 13,360                         |
| M.Sc. in Integrated Systems Design               | annual fee (see note 2)             | 7,646                      |                                |
| M.Sc. in I.T. in Education                       | annual fee (see note 2)             | 4,365                      | 9,616                          |
| M.Sc. in Mammalian Cell Physiology               | annual fee (see note 2)             | 6,888                      | 9,919                          |
| M.Sc. in Management of Information Systems       | annual fee (see note 2)             | 4,271                      | 7,000                          |
| M.Sc. in Midwifery                               | annual fee (full-time) (see note 2) | 6,900                      | 13,500                         |
|  | annual fee (part-time) (see note 2) | 3,600                      | 10,015                         |
| M.Sc. in Molecular Medicine                      | annual fee (full-time) (see note 2) | 5,751                      | 16,181                         |
|  | annual fee (part-time) (see note 2) | 3,860                      | 10,810                         |
| M.Sc. in Molecular Pathology                     | annual fee (full-time) (see note 2) | 4,841                      | 13,449                         |
|  | annual fee (part-time) (see note 2) | 3,604                      | 9,825                          |
| M.Sc. in Multimedia Systems                      | annual fee (see note 2)             | 8,917                      | 17,772                         |
| M.Sc. in Nuclear Medicine                        | annual fee (see note 2)             | 3,831                      | 11,459                         |
| M.Sc. in Nursing                                 | annual fee (full-time) (see note 2) | 6,900                      | 13,500                         |
|  | annual fee (part-time) (see note 2) | 3,600                      | 10,015                         |
| M.Sc. in Occupational Therapy                    | annual fee (see note 2)             | 4,181                      | 11,575                         |
| M.Sc. in Paediatrics                             | annual fee (see note 2)             | 5,240                      | 22,314                         |
| M.Sc. in Pharmaceutical Analysis                 | annual fee (full-time) (see note 2) | 6,942                      | 17,744                         |
|  | annual fee (part-time) (see note 2) | 5,305                      | 13,325                         |
| M.Sc. in Pharmaceutical Manufacturing Technology | annual fee (see note 2)             | 8,500                      |                                |

|   |  | <b>EU<br/>Euro €</b> | <b>Non-EU<br/>Euro €</b> |
|---|--|----------------------|--------------------------|
| M.Sc. in Pharmaceutical Medicine  | annual fee                                 | 3,942                | 10,752                   |
| M.Sc. in Pharmaceutical Technology  | annual fee (full-time) (see note 2)        | 7,956                | 18,947                   |
|   | annual fee (part-time) (see note 2)        | 5,006                | 11,868                   |
| M.Sc. in Physical Sciences in Medicine  | annual fee (1st and 2nd years)             | 4,825                | 15,571                   |
|   | annual fee (subsequent years)              | 2,160                | 4,418                    |
| M.Sc. in Psychoanalytic Psychotherapy   | annual fee (see note 2)                    | 5,830                | 14,467                   |
| M.Sc. in Public Sector Analysis   | annual fee (see note 2)                    | 11,206               |                          |
| M.Sc. in Science Education  | annual fee (see note 2)                    | 3,356                |                          |
| M.Sc. in Sports Medicine  | annual fee (see note 2)                    | 8,684                | 12,140                   |
| M.Sc. in Water Science and Technology   | annual fee (see note 2)                    | 5,408                | 14,386                   |
| M.Sc. (Mgmt) in Business Administration   | annual fee (see note 4)                    | 10,266               |                          |
| M.Sc. (Mgmt) in International Business  | annual fee (see note 4)                    | 23,050               | 23,050                   |
| M.Sc. (Mgmt) in Management Practice   | annual fee (see note 4)                    | 17,935               |                          |
| M.Sc. (Mgmt) in Organisation Behaviour  | annual fee (see note 4)                    | 10,130               |                          |
| M.Sc. (Mgmt) in Strategic<br>Management (Public Sector)   | annual fee (see note 4)                    | 10,266               |                          |
| M.St. in Curriculum Studies   | annual fee (see note 2)                    | 4,468                |                          |
| M.St. in School Leadership  | annual fee (see note 2)                    | 4,468                |                          |
| M.S.W.  | annual fee                                 | 4,552                |                          |
| Ph.D. in the Faculties of   | annual fee (1st, 2nd and 3rd years)        | 3,466                | 7,425                    |
| Arts (excluding the Department of<br>Psychology) and in the Faculty of<br>Business, Economic and Social Studies | annual fee (subsequent years) (see note 3) | 1,837                | 3,712                    |
| Ph.D. in the Faculties of Engineering   | annual fee (1st, 2nd and 3rd years)        | 4,114                | 8,840                    |
| and Systems Sciences, Health Sciences,<br>Science and in the Department of Psychology                           | annual fee (subsequent years) (see note 3) | 2,160                | 4,418                    |
| Ph.D. in Political Science  | annual fee (see note 2)                    | 6,170                | 11,753                   |
| D.Clin.Psych.   | annual fee (see note 2)                    | 12,192               |                          |



|   |                       | <b>EU<br/>Euro €</b> | <b>Non-EU<br/>Euro €</b> |
|---|-----------------------|----------------------|--------------------------|
| Thesis revision fee (Arts/Business,<br>Economic and Social Studies) | one year (see note 5) | 1,379                | 1,379                    |
| Thesis revision fee (Engineering and<br>Systems Sciences/Science)   | one year (see note 5) | 1,618                | 1,618                    |

## Notes:

1. The fee applies to students registered for professional higher degrees from their third year onwards, i.e. the examination and degree fee covers the first two years of registration. However, students who are in full-time attendance at Trinity College are liable for the same reduced annual fee as applies for degrees by research (see note 3 below).
2. Students who do not complete their master's degree course in the required time will have to re-register and pay the same reduced annual fee as applies for degrees by research (see note 3 below).
3. Students entering the third and subsequent years on the M.Sc. (by research), M.Litt. and M.Ed. registers and the fourth and subsequent years on the Ph.D. register will be required to pay this reduced continuation fee.
4. This course is organised jointly with the Irish Management Institute.
5. Where the revised thesis is submitted within six months of the original thesis submission date a reduced fee of €864 will be payable.

**POSTGRADUATE DIPLOMA AND CERTIFICATE FEES<sup>4</sup>**

|   |                            | <b>Euro €</b> |
|---|----------------------------|---------------|
| Applied building repair and conservation              | annual fee                 | 4,360         |
| Bioengineering  | annual fee                 | 5,449         |
| Certificate in French for applied scientists          | annual fee                 | 3,066         |
| Child protection and welfare                          | annual fee (See Note 1)    | 4,995         |
| Clinical dentistry                                    | annual fee                 | 3,121         |
| Clinical engineering (equipment management)           | annual fee                 | 4,632         |
| Clinical health sciences education                    | annual fee                 | 3,700         |
| Clinical speech and language studies (dysphagia)      | annual fee                 | 3,780         |
| Clinical supervision (psychology)                     | annual fee                 | 5,750         |
| Cognitive psychotherapy                               | annual fee                 | 7,681         |
| Community pharmacy                                    | annual fee                 | 8,353         |
| Computers for engineers                               | annual fee                 | 3,092         |
| Conflict and dispute resolution studies               | annual fee                 | 4,568         |
| Construction law and contract administration          | annual fee                 | 5,414         |
| Dental health   | annual fee (See note 2)    | 7,047         |
| Ecumenics   | annual fee (full-time)     | 4,795         |
|   | annual fee (part-time)     | 2,782         |
| Environmental engineering                             | annual fee                 | 4,599         |
| Exercise physiology                                   | annual fee                 | 5,624         |
| Fire safety practice (buildings and other structures) | annual fee                 | 4,599         |
| Gerontological nursing                                | annual fee                 | 3,165         |
| Gynaecology and obstetrics                            | annual fee (See note 3)    | 7,903         |
| Health and safety in construction                     | annual fee                 | 4,360         |
| Health informatics                                    | annual fee                 | 4,365         |
| Higher diploma in education                           | annual fee                 | 3,698         |
|   | annual fee                 | 1,383         |
|   | (2nd year when applicable) |               |
| Highway and geotechnical engineering                  | annual fee                 | 4,599         |
| Magnetic resonance imaging technology                 | annual fee                 | 3,831         |

|   |                        | Euro € |
|---|------------------------|--------|
| Midwifery                               | annual fee             | 1,802  |
| Molecular medicine                      | annual fee             | 3,700  |
| Music and media technologies            | annual fee             | 5,562  |
| Nuclear medicine                        | annual fee             | 3,831  |
| Old Irish                               | annual fee             | 4,337  |
| Oncological nursing                     | annual fee             | 2,450  |
| Paediatric nursing                      | annual fee (1st year)  | 1,802  |
|   | annual fee (2nd year)  | 945    |
| Peace studies                           | annual fee (full-time) | 4,795  |
|   | annual fee (part-time) | 2,782  |
| Pharmaceutical analysis                 | annual fee (full-time) | 6,942  |
|   | annual fee (part-time) | 5,305  |
| Pharmaceutical manufacturing technology | annual fee             | 8,761  |
| Pharmaceutical technology               | annual fee (full-time) | 7,884  |
|   | annual fee (part-time) | 4,961  |
| Physical planning                       | annual fee             | 4,599  |
| Polymer science and technology          | annual fee             | 6,197  |
| Primary health care                     | annual fee             | 6,652  |
| Project management                      | annual fee             | 4,356  |
| Professional midwifery studies          | annual fee             | 3,165  |
| Professional nursing studies            | annual fee             | 3,165  |
| Quality improvement                     | annual fee             | 4,359  |
| Specialist nursing                      | annual fee             | 2,450  |
| Statistics                              | annual fee (1st year)  | 3,092  |
|   | annual fee (2nd year)  | 574    |

**Note:**

1. There will be a 33 per cent reduction for students employed by an agency funded by the Department of Health and Children.
2. This is a standard tuition fee for all students irrespective of country of residence or nationality.
3. This is a standard tuition fee for all students irrespective of country of residence or nationality and includes the fees for the Rotunda Hospital. Accommodation costs are not included.
4. All non-E.U. diploma/certificate students (other than dental health, and gynaecology and obstetrics) will be liable for an annual fee of three times the annual E.U. fee or €12,321 whichever is the lower. The only exception to this will be where a specific fee has been set for the course. Please check with the Treasurer's Office for details.

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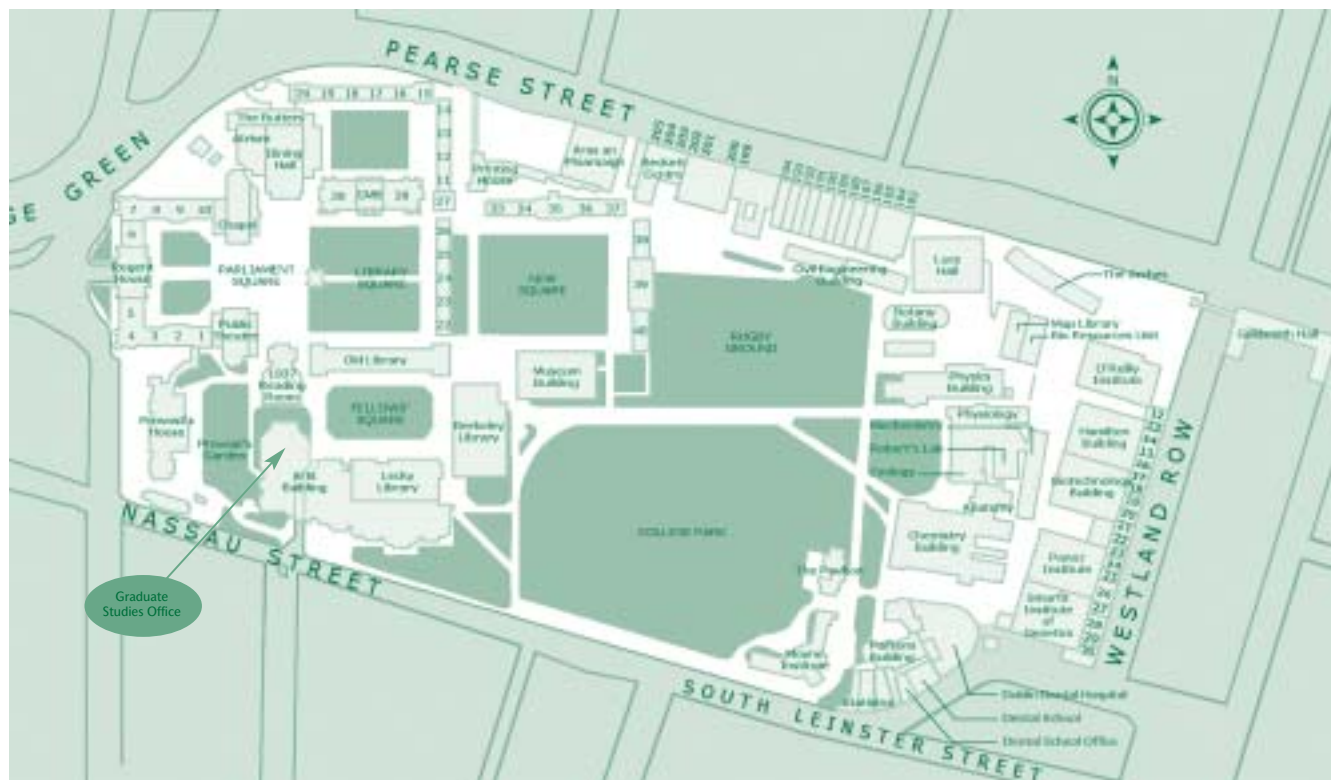
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## Notes:

- 1 Taught in the Irish School of Ecumenics.
- 2 Jointly taught with the University of Limerick and the University of Ulster.
- 3 Jointly taught with the Rotunda Hospital and Our Lady of Lourdes Hospital, Drogheda.
- 4 Jointly taught with St. Luke's and St. Anne's Hospital and St. James's Hospital (School of Nursing)
- 6 Jointly taught with St. James's Hospital and the Adelaide and Meath Hospital, Dublin, incorporating the National Children's Hospital.

# Map of Campus



C.S.L.S. Clinical Speech & Language Studies  
D.H.G. Douglas Hyde Gallery  
D.S.O. Dental School Office  
E.E.E. Electronic and Electrical Engineering  
E.S.U. Environmental Science Unit

G.M.B. Graduates' Memorial Building  
H.S.O. Health Science Office  
I.A.M.S. Institute of Advanced Materials Science  
M.M.E. Mechanical and Manufacturing Engineering

S.B.C. Samuel Beckett Centre  
S.F.O. Science Faculty Office  
S.H.C. Student Health Centre