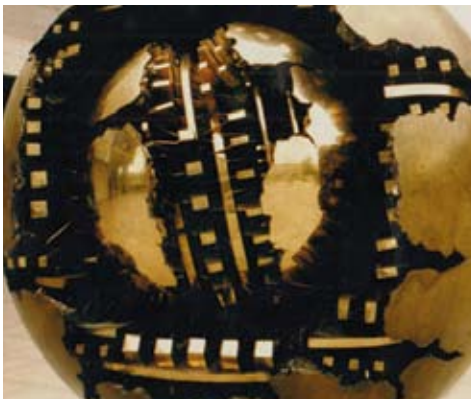
TRINITY COLLEGE

The University of Dublin



UNDERGRADUATE COURSES 2007

TCD
Open Day

Wednesday 13 December 2006

9.00am – 3.00pm

www.tcd.ie









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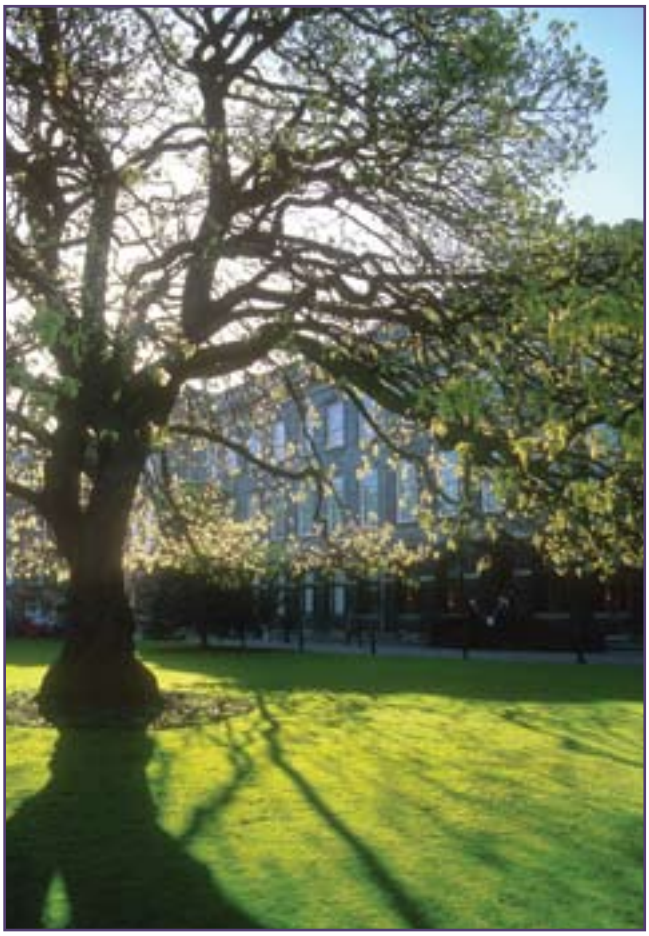


A Message from the Provost

To pursue a third level education is to embark on an exciting and invigorating journey that will open your mind to many new experiences and ways of thinking. Choosing the right university may be the biggest decision in your life so far, and one that you must take based on your own instincts and reasoning. I hope that you will consider joining us as a student at Trinity College Dublin.

Trinity College has been a special place for students going back over 400 years. It is firmly looking ahead to the needs of students in 21st century society, in Ireland and globally. The combination of innovation and tradition at Trinity guarantees a distinctive all-round undergraduate experience that will change your life forever.

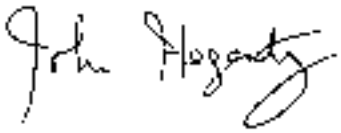
Trinity College is not just Ireland's oldest university. It is its most prestigious and internationally recognised university. Many of its graduates are household names, such as Swift, Berkeley, Burke, Wilde, Goldsmith, and Beckett in the Arts, and Hamilton and Walton in the Sciences. Two of these, Beckett and Walton, are Nobel prizewinners. Today, the College has some of the most creative and innovative minds in the world, professors and lecturers at the forefront of thinking and discovery who will be teaching you and helping you to develop to your full potential.

As Ireland's leading university, Trinity has a number of important priorities for its students. Every incoming student is assigned a Tutor, a member of staff, who is there to advise you and help if any personal problem arises. Trinity's Tutorial system is unique in Ireland. Its curriculum and teaching is aimed not just at acquiring knowledge but at developing critical thinking, free enquiry, and contact with research at every stage of the undergraduate programme. You will learn to think for yourself, to challenge the orthodoxies of our society, to learn from your mistakes, and refine your mind to be able to cater for whatever the changing world may throw at you. These skills are for life.

As a student at Trinity, you will develop great depth of understanding in your chosen subjects or disciplines. We believe, however, that you should acquire en route a strong sense of the wider world of knowledge into which you can delve at any point later in your career. Our curriculum caters specifically for this through specialist and broad courses, which you can take for credit. Every student, for example, can take a course in a language.

The student experience is a chance in a lifetime for personal development in the widest sense. Our student body is diverse and ensures that you will have an opportunity to make friends with students from all parts of Irish society as well as with international students from over 86 countries. In addition, Trinity has almost 100 societies and sporting clubs to cater to your every interest, both personal and altruistic.

In short, as a student in Trinity you will have an experience intellectually, socially and culturally, that will be a passport to any walk of life and an entry to a vast worldwide network of graduates who can and will help you throughout your lifetime. Having this experience at the heart of Dublin City, and in a historically beautiful campus, is truly special. I hope you will have an opportunity to enjoy it firsthand.



John Hegarty

Provost

July 2006

Teachtaireacht ón bPropast

Is ionann dul sa tóir ar oideachas 3ú leibhéal agus tabhairt faoi thuras scleondrach agus spreagthach a osclóidh do aigne do an-chuid eachtraí agus bealaí nua machnaimh. D'fhéadfadh roghnú na hollscoile is fearr duitse a bheith ar an gcinneadh is mó i do shaol go dtí seo, cinneadh nach mór duit a ghlacadh ó nádúr agus réasúnaíocht. Tá súil agam go ndéanfaidh tú do mhachnamh ar bheith mar mhac léinn i gColáiste na Tríonóide i mBaile Átha Cliath.

Áit speisialta do mhic léinn ba ea Coláiste na Tríonóide le breis agus 400 bliain. Anois tá an Coláiste ag breathnú ar aghaidh go diongbháilte ar riachtanais na mac léinn sa 21 aois in Éirinn agus ar fud an domhain. An comhcheangal idir nuálaíocht agus traidisiúin sa Choláiste tugann sé geall le taithí dhifriúil ilbheartach fochéime a athróidh do shaol go deo amach anseo.

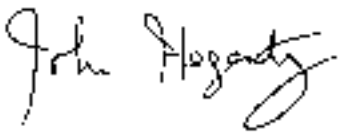
Ní amháin go bhfuil Coláiste na Tríonóide ar an gcoláiste is ársa in Éirinn, is é an coláiste is mó cáil sa tír é agus is mó aitheantais go hidirnáisiúnta chomh maith. Aithnítear mórchuid dá chéimithe go héasca is go forleathan ar nós Swift, Burke, Goldsmith agus Beckett sna hEalaíona agus Hamilton agus Walton sna hEolaíochtaí. Bhuaigh beirt acusan, Beckett agus Walton an duais Nobel. Inniu, tá cuid de na hintinní is cruthaithí agus nuálaí ar domhan, ollúna agus léachtóirí chun tosaigh i machnamh agus i bhfionnachtain a mbeidh dod' theagasc agus ag cabhrú leat do chumas iomlán a thabhairt chun forbartha.

Mar ollscoil cheannródaíoch na hÉireann, tá roinnt tosaíochtaí tábhachtacha leagtha amach dá mac leinn ag an Tríonóid. Cuirtear Teagascóir ar fáil do gach aon nhac léinn a thagann isteach sa Choláiste, ball foirne chun comhairle a chur ort agus cabhrú leat má thagann aon deacracht phearsanta chun cinn. Is córas sainiuil é seo agus níl a leithéid le fáil in aon áit eile in Éirinn. Ní ar eolas amháin a fhail atá an curaclam agus an teagasc dírithe, tá sé dírithe chomh maith ar mhachnamh criticiúil, saorfhiosrú agus teagmháil le taighde ag gach ionad de chlár an fhochéimí. Foghlaimeoidh tú conas machnamh a dhéanamh as do stuaim fein, cruthú ar ceartchreidimh ár sochaí a eileamh, foghlaim ó do bhotúin, agus do aigne a athscagadh le bheith ábalta teacht i dtír ar pé rud a chaitfeadh an domhan luaineach seo leat. Is scileanna iad seo a bheidh agat i gcaitheamh do shaoil.

I do mhac léinn sa Tríonóid, forbróidh tú tuiscint an-domhain ar na hábhair nó na disciplíní a roghnaionn tú. Creidimid, áfach, go mba cheart duit ar do bhealach trid an gColáiste tuiscint láidir a fháil ar dhomhan eolais níos leithne ná sin a chuirfidh ar do chumas duit tumadh isteach ann amach anseo i do ghairm bheatha. Freastalaionn ár gcuraclam ar an ngné seo go háirithe trí chúrsai speisialta agus leathana ar féidir leat bheith ag gabháil leo ar bhonn creidiúna. Is feidir le gach mac léinn, cuir i gcás, tabhairt faoi chúrsa teanga.

Seans aon uaire is ea eispéireas an mhic leinn le haghaidh forbairt pearsanta sa chiall is leithne. Tá ár mic léinn éagsúil agus deimhnionn seo go mbeidh deseanna agat cairdeas a chothú le mic léinn ó shochai uile na hÉireann chomh maith le mic leinn idirnáisiúnta ó 86 tír. Lena chois sin, tá beagnach 100 cumann agus club spóirt le freastal ar do spéiseanna ar fad, bídís pearsanta nó soilíosach agus dírithe i dtreo an duine eile.

Go hachomair, i do mhac léinn sa Tríonóid, beidh eispéireas intleachtúil, sóisialta agus cultúrtha agat a bheidh ina phas do ghairm ar bith agus ina chead isteach do ghréasán domhanda iarchéimithe a chabhróidh leat i gcaitheamh do shaoil. Tá an t-eispéireas an- speisialta seo i gceartlár chathair Átha Cliath, agus in ionad álainn stairiúil. Tá súil agam go mbeidh áiméar agat taitneamh a bhaint as i do mhac léinn i gColáiste na Tríonóide.



John Hegarty

Propast

Iúil 2006

Letter from the Dean of Students

Dear Student

Welcome to this Trinity College prospectus, where you will find information on the many undergraduate courses that Trinity has to offer. You will also read about some of the non-academic aspects of College life that can make studying here so rewarding. There are numerous opportunities available in Trinity for students to participate in sports, societies and other recreational activities – indeed, there are currently more than 50 sports clubs and 90 student societies in the College, so there is something to suit almost every interest. One of the most exciting new developments is the new Sports Hall, which is due to open shortly.

We in Trinity recognise that students, like everyone else, run into difficulties from time to time and therefore we provide a range of support services to help students overcome problems. The support services include careers advice, chaplaincy, counselling, disability services, health and the tutor service. I would particularly like to draw your attention to our tutor system: each undergraduate student is assigned an academic tutor who is available to provide advice and assistance when needed. This can be particularly helpful for new students making the adjustment from school to College.

Another important aspect of the student experience at Trinity is life in one of the student residences, whether on campus or at Trinity Hall. Trinity Hall has recently undergone a major expansion and now has over 1,000 rooms, including about 400 Junior Freshman students. Trinity Hall therefore offers new students an opportunity to get to know other students and staff, and to engage with College life through various social activities.

In conclusion, I hope you enjoy reading this prospectus and that it encourages you to join our university. I look forward to meeting many of you as students here next year.

Yours faithfully

Bruce Misstear

Dean of Students

Litir ó Dhéan na Mac Léinn

A Mhac Léinn

Fáilte go réamheolaire Choláiste na Tríonóide ina bhfuil eolas ar na cúrsaí éagsúla fochéime a chuireann an Tríonóid ar fáil. Léifidh tú i dtaobh na gcúrsaí sin, agus faoi chuid de gnéithe neamhacadúla de shaol an Choláiste chomh maith gur féidir leatsa an-tairbhe a bhaint as bheith i mbun staidéir anseo dá bharr.. Do na mic léinn tá an-chuid deiseanna ar fáil sa Tríonóid chun páirt a ghlacadh i gcúrsaí spóir, i gcumainn agus in imeachtaí eile a bhaineann le caitheamh aimsire. Tá breis agus 50 club spóirt agus 90 cumann dílsithe do na mic léinn sa Choláiste faoi láthair agus ciallaíonn sin go bhfuil spórt nó cumann in oiriúint do gach léiriú spéise na mac léinn. Ceann de na forbairtí nua is mó is ábhar scleondair is ea an Halla Spóirt nua atá le hoscailt go luath.

Aithnímid anseo sa Choláiste go mbíonn deacrachtaí ag na mic leinn ó am go chéile, ar nós an uile dhuine, agus dá réir sin cuirimid raon seirbhísí tacaíochta ar fail chun cabhrú leis na mic léinn a gcuid fadhbanna a réiteach.

Tá comhairle ghairme, séiplíneacht, comhairliú, seirbhísí míchumais, sláinte agus seirbhís teagascóra san áireamh. Ba mhaith liom d'aire a dhíriú ar ár gcóras teagascóra; ainmnítear teagascóir acadúil i leith gach fochéimí agus bionn an teagascóir ar fáil chun comhairle agus cabhair a sholáthar nuair is gá. Is féidir leis an tseirbhís seo a bheith ina mórchabhair go háirithe do mhic léinn úra ag dul in oiriúint dóibh ó shaol na scoile go saol an Choláiste.

Gné thábhachtach eile de thaithí an mhic léinn sa Choláiste is ea cónaí i gceann de na hionaid chónaithe ar an gcampas nó i Halla na Tríonóide.

Cuireadh go mór le Halla na Tríonóide le déanaí agus tá breis agus 1,000 seomra ann anois, ag cur san áireamh 400 mac léinn na chéad bhliana.

Dá bhrí sin bíonn deis ag na mic léinn úra i Halla na Tríonóide aithne a chur ar mhic léinn eile agus ar an hfoireann chomh maith le bheith pairteach i saol an Choláiste trí imeachtaí éagsúla sóisialta.

Mar chlabhsúr, tá súil agam go mbainfidh tú taitneamh as an réamheolaire seo a léamh agus go spreagfaidh sé thú chun freastal ar ár n-ollscoil. Táim ag tnúth le bualadh le cuid mhaith agaibh mar mhic léinn anseo an bhliain seo chugainn,

Le gach dea-ghuí

Bruce Misstear

Déan na Mac Léinn

Historic university: contemporary centre for learning

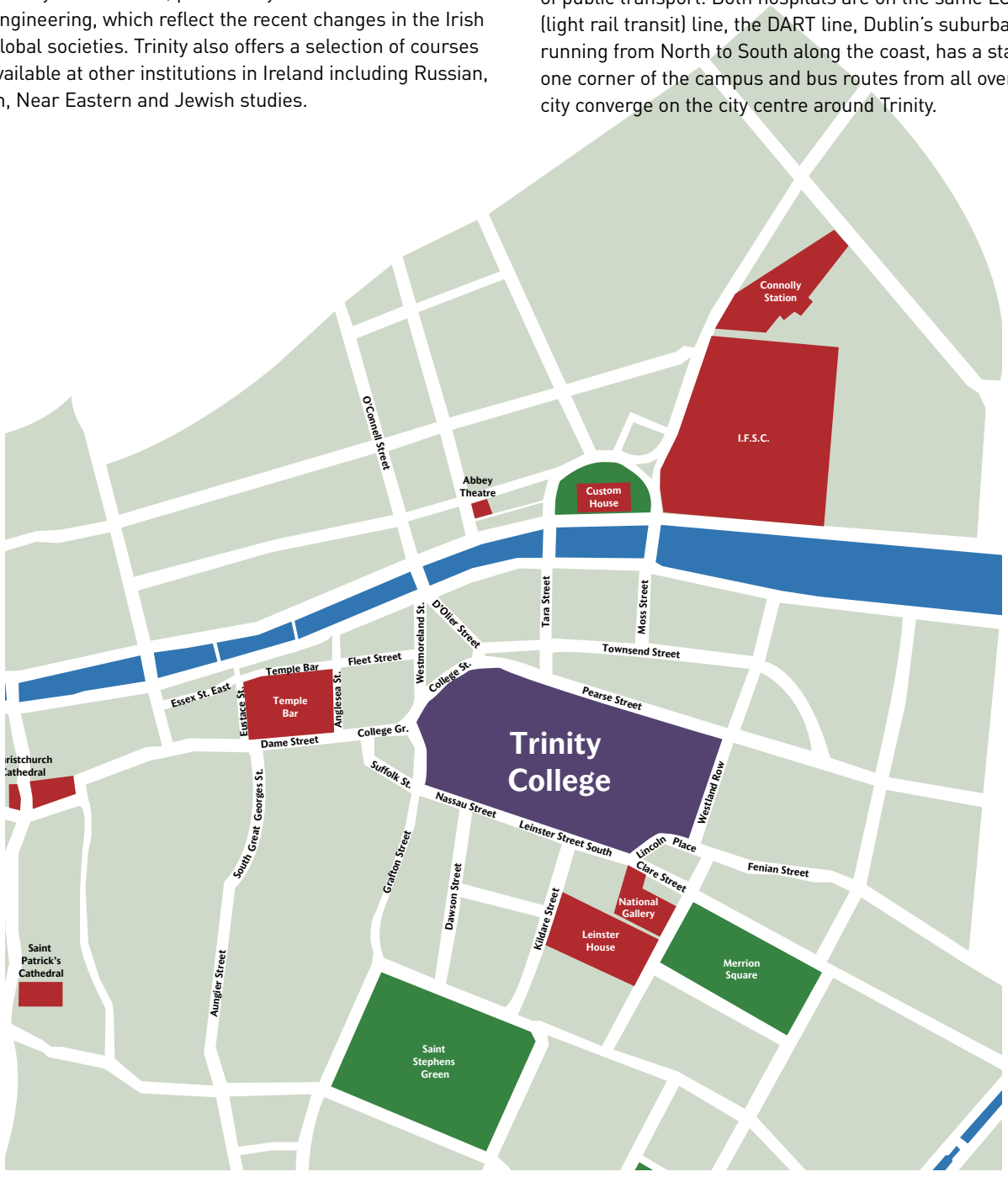
The University of Dublin, founded in 1592, is the oldest university in Ireland. Some of the most famous people in Irish history have been educated at Trinity; writers like Dean Swift and Samuel Beckett; scientists like Rowan Hamilton the mathematician and E.T.S. Walton, who won the Nobel Prize for his work on the atom. The importance placed on research has ensured that undergraduate courses are continuously revised and updated. There are also a number of relatively new courses, particularly in the areas of science and engineering, which reflect the recent changes in the Irish and global societies. Trinity also offers a selection of courses not available at other institutions in Ireland including Russian, Polish, Near Eastern and Jewish studies.

A city centre university

The University of Dublin has one college – Trinity College. The main campus (situated in Dublin's city centre) covers over forty acres of cobbled squares and green spaces around buildings which represent the accumulated architectural riches of nearly three centuries as well as state-of-the-art modern facilities. Many of Ireland's important cultural, historical and financial centres are within easy walking distance of the College gates.

Trinity's two main teaching hospitals are The Adelaide and Meath Hospital incorporating the National Children's Hospital (AMNCH) at Tallaght and St James's Hospital.

Trinity's central location makes it accessible for all forms of public transport. Both hospitals are on the same LUAS (light rail transit) line, the DART line, Dublin's suburban rail running from North to South along the coast, has a station on one corner of the campus and bus routes from all over the city converge on the city centre around Trinity.



Facilities at Trinity College

Accommodation

There is accommodation both on campus and at Trinity Hall a short distance away. New entrants are mostly accommodated at Trinity Hall which is in Dartry, near Rathmines – about 2.5 miles from the city centre. There are over 1,000 residential rooms at Trinity Hall and a significant number are reserved for new entrants to College.

Trinity Hall

Rooms are arranged in self-catering apartments, each accommodating six persons and consisting of single and twin en-suite bedrooms with a large kitchen/living room. All rooms are centrally heated, all floors are serviced by lifts, electric appliances are supplied in the kitchens and for security electronic swipe card locks are used throughout and are fitted on bedroom doors. Residents of Trinity Hall also become members of the Junior Common Room which organises a range of extra-curricular activities.

Cost of rooms in Trinity Hall 2006/ 2007

Single en-suite room	€4,658
Twin en-suite room	€3,572

How to apply for Trinity Hall

As soon as you have accepted a place in Trinity you may submit an application for Trinity Hall on-line at **http://www.tcd.ie/accommodation/StudentsandStaff/Students/HowtoApply/**

On-campus rooms

Rooms on campus are mostly reserved for students in their final year and Trinity Scholars (see page 16). There are a number of rooms on the campus suitable for students who have mobility difficulties and who are capable of independent living. Where, due to medical or other particular circumstances, participation in College may be facilitated by the provision of accommodation, applications will receive special consideration. Applications from students with special needs should be addressed to the Registrar of Chambers, Accommodation Office, West Chapel, Trinity College, Dublin 2 as soon as an offer to a Trinity course is received. A supplementary form will then be sent requesting information from a medical practitioner and other relevant professionals.

Find out more at **http://www.tcd.ie/accommodation/StudentsandStaff/Students/Campus/**

Other options for first year students

For students who do not apply for or do not secure a place in College accommodation there are two main alternatives in Dublin: – lodgings (digs) which involves residing with a householder or family as a 'boarder' with some meals served by the householder or private rented accommodation usually sharing a flat or house with other students.

The Accommodation Advisory Service operates annually from early September to mid-October and provides information and contacts for students wishing to secure lodgings or rented accommodation. It is run by Trinity in co-operation with the Students' Union and offers guidance on what to look for when renting as well as providing telephones and a base from which students can contact prospective landlords.

For further information and advice see **http://www.tcd.ie/accommodation/StudentsandStaff/UsefulInformation/PrivateRentedAccommodation/**

Ar mhaith leat páirt a ghlacadh I Scéim Chónaithe Dhartraí, scéim I Halla na Tríonóide do lucht na chaéad bhliana?/Would you like to take part in Sceim Chónaithe Dhartraí, an Irish speaking residential scheme for Junior Freshman students in Trinity Hall? Tuilleadh eolais/For further information, go to: **www.tcd.ie/irish/dartrai.htm**

Library

The Library of Trinity College is the largest research library in Ireland. In addition to purchases and donations accrued over almost four centuries, the College has had 200 years of legal deposit. By this right Trinity can claim a copy of every book published in Ireland and the United Kingdom.

The Library contains over 4.25 million volumes, thirty thousand current serial titles, significant holdings of maps and music and an extensive collection of manuscripts, the most famous being the Book of Kells. Students can access a large array of electronic resources over the internet including over 250,000 electronic books, almost 100 databases and 30,000 electronic journals.

The Library operates on a number of sites both on and off campus:

- The Old Library (1732) is one of Ireland's greatest buildings, and the Long Room, where you can view the Book of Kells, is one of the most famous library spaces in the world. It contains Trinity's collection of manuscripts, archives and early printed books as well as an exhibition space.
- The main library complex, comprises the Berkeley (1967), Lecky (1978) and James Ussher (2002) libraries, and includes collections in the arts, social sciences, business studies, geography, geology, nursing and a new purpose-built map library.
- The Hamilton Library (1992) houses the science and engineering and systems sciences collections as well as some health science material.
- Clinical health science material is held at the John Stearne Medical Library at St. James's Hospital and at the AMNCH Hospital, Tallaght.

Find out more at **tcd.ie/Library**

IT for Trinity students

Each student is allocated a TCD email account and a certain amount of storage space on the College server for storing their files. College computers contain standard software to facilitate email, web, and word processing, along with software for other common functions. Some student computer rooms have specialist software to support particular courses or projects. In addition there is a range of assistive technology managed by the Disabilities Services (see page 13). Dedicated email/web stations located close to large lecture theatres enable students to check their email and to use the web between lectures.

Trinity has a special deal with DELL computers offering students a choice of three laptops, all compatible with the College infrastructure. Students can apply to connect their personal computers to the College network and the computers can then be used at a number of locations in the Hamilton, Berkeley and Ussher libraries. Trinity also provides a wireless network through which students can access email and web services on their personal computers.

All computing facilities are supported by a helpdesk and training in particular packages is available to students.

Find out more at **http://isservices.tcd.ie**

Trinity theatres

The Samuel Beckett Centre comprises the Samuel Beckett Theatre (a 208-seat black box performance space), Players Theatre (the studio theatre of the student drama society), a dance studio/rehearsal space, seminar rooms and offices. During term time the Samuel Beckett Theatre showcases the work of Drama and Theatre Studies. It has also hosted visits from some of the most prestigious dance and theatre companies from Ireland, Europe, Japan and the United States. Regular events at the Samuel Beckett Theatre include the Dublin Fringe Festival and the Dublin Theatre Festival, as well as an on-going series of lectures in contemporary theatre by practitioners and scholars.

Find out more at **tcd.ie/Drama**

Gallery

The Douglas Hyde Gallery was opened in 1978 and is located at the Nassau Street entrance to Trinity. It is a non-profit making company, funded jointly by Trinity College and the Arts Council of Ireland. The Gallery, whose reputation is firmly established in the international contemporary art world, has a diverse programme of exhibitions, and its publications are widely distributed in Ireland and abroad. Activities such as tours, lectures and discussion groups encourage audience participation and evaluation of the work on show; there are also frequent film screenings and occasional concerts. The Gallery has a small bookshop which stocks a wide range of art magazines and catalogues of current and past exhibitions.

Admission to the gallery is free. Private tours can also be arranged.

Find out more at **www.douglashydegallery.com**

An Ghaeilge

Tá béim nios mó á cur ar úsáid na Gaeilge i saol an Choláiste le blianta beaga anuas agus tá an toradh le feiscint sa chomhathaiocht dhátheangach ar fud an Choláiste, san ábhar i nGaeilge a fhoilsítear i bhfoilseacháin oifigiúla agus i nuachtáin an Choláiste, agus sa Ghaeilge a labhartar ar an gcampas.

Bionn ranganna Gaeilge ar fáil do mhic léinn agus cuirtear fáilte ar leith roimh na mic léinn úra nach mbíonn Gaeilge mar ábhar acu sa Cholaiste.

Má tá spéis agatsa sna ranganna, beidh deis agat é sin a chur in iúl le linn Sheachtain na Mac Léinn Úr.

Tríd an Scéim Chónaithe a bunaíodh sa bhliain 2003-2004 bíonn deiseanna ag muintir na Scéime Gaeilge a labhairt mar theanga cumarsáide agus páirt ghníomhach a ghlacadh sna himeachtaí Gaeilge agus cultúrtha i gcaitheamh na bliana.

Sa bhliain 2006-2007 déanfar forbairt ar raon agus scóip na Scéime; cuirfear tús le Scéim Chónaithe Dhartraí do mhic léinn na chéad bhliana a bheidh lonnaithe i Halla na Tríonóide, agus le Scéim Chónaithe na Scoláirí ar champas an Choláiste do scoláirí a roghnaíonn an Ghaeilge mar theanga chumarsáide laethúil. Leis na forbairtí seo táthar ag cur le pobal Gaeilge an Choláiste, á chothú agus á leathnú.

Is é an tOifigeach Gaeilge, An Dr. Micheál W. Ó Murchú atá i mbun na seirbhísí éagsúla seo i bpáirt le Coiste Gaeilge an Choláiste agus le tacaíocht ó Údaráis an Choláiste agus an tÚdarás um Ardoideachas.

In recent years Trinity College has been placing greater emphasis on the use of Irish in College and the results can be seen in bilingual signage, the increased use of Irish in official College publications and newspapers and the Irish spoken on campus.

Irish classes for students are available and first years not studying Irish as an academic subject are particularly welcome. You will have an opportunity to express your interest in the classes during Freshers' Week.

The College Scéim Chónaithe has been in operation since 2003-2004, providing students with opportunities to speak Irish as their daily means of communication and to take part in Irish and cultural activities throughout the year.

An Scéim will be developed in 2006-2007: Scéim Chónaithe Dhartraí will be introduced for first year students residing in Trinity Hall, while a number of Trinity Scholars will participate in Scéim Chónaithe na Scoláirí on campus. Initiatives such as these will contribute to the building of an Irish-speaking Community in College.

The services to implement, promote and develop the use of the Irish language across the Trinity campus are the remit of Oifigeach na Gaeilge, An Dr. Micheál W.Ó Murchú, in partnership with the Coiste Gaeilge and with the support of the College Authorities and the Higher Education Authority.

R-phost: **mwomurchu@eircom.net**

Support services for students

Personal tutor

Each undergraduate student at Trinity is assigned to a personal tutor. Tutors are members of the academic staff and their function is to offer confidential personal and academic advice to their tutees. Tutors are a source of information on various aspects of College affairs: financial assistance, academic progress and College regulations. They also act as a communication channel between students and the College administration and represent their tutees before the College authorities on academic or disciplinary matters.

You should make your tutor aware of any difficulty that interferes with your studies and prevents you from performing to the best of your ability.

Find out more at **tcd.ie/Senior_Tutor**

Careers

The Careers Advisory Service offers a range of services and resources to assist students in preparing for, making and implementing informed decisions about their future careers. Throughout the process students are encouraged to adopt a self-help approach, so that they can continue to independently manage their career after College.

Researching career options is easy. Both the Careers Advisory Service website and Careers Library provide information on all stages of the career planning process, in addition to information on employment vacancies, postgraduate study and working abroad. There are regular group seminars on topics such as 'Preparing a Curriculum Vitae', 'Application Forms' and 'Interview Skills' and access to computer-based guidance tools and individual career guidance.

At Trinity, all students are encouraged to develop skills through participation in clubs and societies, voluntary and vacation work. The Careers Advisory Service VACWORK programme offers students the opportunity to participate in a work experience programme or internship during the summer before their final year. In addition, the Careers Advisory Service organises the 'milkround', which invites employers to visit the Trinity to meet with interested final year and postgraduate students.

Find out more at **tcd.ie/Careers**

Chaplaincy

The Chaplaincy seeks to be a place of hospitality for all members of the College community, and we welcome the presence and participation of students of all faiths. During term time, tea and coffee are available all day in House 27, and students are invited to call in for lunch on Tuesdays. A variety of events are organised during the year, and pastoral guidance, spiritual accompaniment and bereavement support are also available. Christian services in both denominational and ecumenical forms take place weekly in the College Chapel.

There are four College chaplains who work closely together and who represent four of the Christian traditions in Ireland: Roman Catholic, Anglican, Presbyterian and Methodist. The chaplains are happy to assist students of these or other churches, or students of other faiths, who wish to make contact with their own religious community in Dublin.

Find out more at **tcd.ie/Chaplaincy**

Counselling

The Student Counselling Service is staffed by six professional counsellors and three learning support psychologists. The service offers a range of facilities free of charge to Trinity College students which include:

- Short-term individual counselling for personal issues, including a daily emergency duty slot.
- Individual sessions and self-help leaflets on essay writing, stress management, presentation skills, examination strategies and many other learning difficulties.
- Learning Support Workshops – a full listing of these can be found on **http://www.tcd.ie/Student_Counselling/service_lshome.php**
- A Peer Support Network and extra assistance for Junior Freshman students.
- An after-hours Niteline service run by students for students. This is available at Freefone 1800 793 793 on Thurs – Sun from 9pm – 2.30am
- An outline mental health portal where students can access free advice from counsellors anonymously.
- Tutor Training – advice and support for tutors in dealing with students who require additional learning or emotional support.

This Service is located at 199-200 Pearse Street and appointments can be made via Reception on 01-896-1407.

We're here to help!

To find out more, visit our web-site at www.tcd.ie/student_counselling

Student Disability Services

Trinity 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. This includes students with a physical, sensory or specific learning disability and medical or mental health condition that interferes with ability to achieve academic goals.

The Student Disability Service is staffed by experienced professional workers with knowledge and expertise in access and equity issues. It works closely with academic staff, tutors, administrators and other support services to meet the support requirements of students with a disability.

Find out more at **www.tcd.ie/disability**

Supplementary Admissions Procedure for students with disabilities

College has supplementary application procedure in place for students from a non-traditional learning background, this includes students with disabilities. Further information can be found on our webpage: **http://www.tcd.ie/disability/information/for_prospective_students/**

Students with a disability should follow the application process detailed on page 18.

Health service

The Student Health Service 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.

As well as general practice (including sports medicine) and nurse-run clinics there are specialised clinics in psychiatry, travel health and sexual health.

Find out more at **www.tcd.ie/Student_Health**

Health care provision in Ireland

All EU students visiting for one term or one year should bring with them a European Health Insurance Card issued in their country of origin. This will entitle you to free primary health care under the General Medical Services Card scheme in the Health Service in College or from an outside general practitioner.

All EU students from outside the Republic of Ireland pursuing a full degree programme should contact the Eastern Regional Health Authority for advice regarding healthcare provision – see **www.erha.ie**

Non-EU students are not normally entitled to national health services in Ireland, and are advised to take out insurance cover for hospitalisation or to extend private health insurance before leaving their home country. You may also join either the Voluntary Health Insurance Scheme or BUPA Ireland.

Details available from: the Student Health Service, House 47, Trinity College, Dublin 2.

Students without private health insurance who will be resident in the country for a minimum period of one academic year may apply to the Eastern Regional Health Authority to be assessed for entitlements to support for hospitalisation under the same conditions as an Irish citizen.

Eastern Regional Health Authority – see **www.erha.ie**

Mature students officer

While your personal tutor will be the first point of contact for all students, mature students have the added support of a Mature Students Officer. The Mature Students Officer is available to provide advice and assistance on matters that you perhaps feel cannot be brought to your tutor's attention.

The Mature Students Officer also maintains a resource room for mature students. This space, suitable for individual study, research or small group project work, is available exclusively to mature students.

Mature students should follow the application process detailed on page 18.

Student Activities

Publications

The Dublin University Publications Committee – or PUBS for short – helps Trinity students gain experience of publishing and the media. Students use industry standard software to produce publications equal to anything in the commercial marketplace while the variety of publications allows students the freedom to experiment with and develop new ideas. The Publications Committee also has strong links with national media and runs regular journalism workshops.

The Publications Committee publishes Trinity News (newspaper), Icarus (literary publication), Piranha! (satirical magazine), Miscellany (social and political commentary), Evoke (international issues) and Divercity (focusing on the themes of multi-culturalism and human rights). The Committee also assists with the publication of the Trinity Student Medical Review and the Student Economic Review.

Find out more at **tcd.ie/Student/Publications**

Sport

Trinity has approximately 50 sports clubs ranging from athletics, rugby, hockey and Gaelic games to snow sports, surfing and martial arts. There are many exciting sports to choose from which we encourage you to get involved in at whatever level suits you. The enjoyment, friendship and camaraderie of playing with a university sports club is an opportunity not to be missed.

For Sports Scholarships see page 15

The sport facilities are located both on-campus and at a number of sites off-campus.

A new sports centre is currently being constructed and will be available for use this academic year. The centre will include a 25m swimming pool, sauna and steam room, fitness theatre, ancillary hall, climbing wall, fitness studio, and holistic treatment rooms. The main sports hall will be housed on the third floor and will host racquet and ball games such as basketball, badminton, volleyball and soccer. Also on-campus are squash courts, tennis courts, a futsal pitch, rugby, soccer and cricket pitches and a grass athletics track in the summer.

Two miles upstream from the College is a boathouse accommodating the Ladies' and Men's Boat Clubs and at Santry Avenue, five miles north of the campus, there are additional pitches for rugby, soccer, hockey and gaelic games.

Find out more at **tcd.ie/sport**

Student societies

When you first come to Trinity College you will discover that there is much more to College life than just lectures and the library. One of the core elements of student life in College is the range of activities organised directly by students for students. 94 recognised student societies covering a broad range of interests, which are funded within the College, constitute the most dynamic and active set of university student societies in the country.

There is something for everyone – from debating to dancing, from singing to sci-fi, from acting to archaeology and from politics to photography – you can choose to rule the world when playing in Gamers Society or to make it a better place with the St. Vincent de Paul Society. And if you feel that a particular interest is not catered for, you can always set up a society yourself. Most often people join societies during Freshers' Week but you can join at any time during the year, societies are always glad of new members.

International students particularly find that societies are a really good way to make new friends and are a valuable introduction to College life. In fact it is often those people that you meet through society activity in college that will remain friends long after you have left.

Find out more at
http://csc.tcd.ie/ and http://www.csc.tcd.ie/events.php

Students' Union

The Students' Union is the only representative body for all undergraduate students in Trinity. It represents students' interests inside and outside of Trinity, campaigns on these interests and also provides a range of student services. Five 'sabbatical officers' are elected each year in college-wide elections – the President, the Deputy President/Publicity Officer, the Education Officer, the Welfare Officer and the Ents (Entertainments) Officer. Officers are supported by part-time Executive Officers and elected representatives from each class.

The Union officers represent students on many important committees, such as the College Board and University Council. The Students' Union is affiliated to the Union of Students in Ireland (USI).

Services run by the Students' Union include three shops, a bookshop co-op, a travel agency (Dublin University Student Travel), an employment and accommodation bureau and the JCR café in Goldsmith Hall. The Students' Union also publishes its own newspaper – the University Record. The Education and Welfare Officers assist students with academic and non-academic problems and concerns respectively. Finally, the Union organises a comprehensive Ents programme including gigs, competitions, nights out and much more.

Find out more at **tcdsu.org**

Scholarships and awards

Since its foundation in 1592, Trinity has sought to assist students of limited means. Although financial assistance is not normally given to first year students, there are exhibitions that you may be entitled to. For students in later years provision is made through the Financial Assistance Committee. You should consult your tutor when you come to Trinity for more information.

Entrance Exhibitions

Entrance Exhibitions are awarded to Junior Freshmen (first year) new entrants provided that sufficient merit is shown in public examination results. Each exhibition is in the form of a book prize worth €254 over two years. The names of exhibitioners are announced during the first term, and the schools in which exhibitioners received their post-primary education are informed.

Sizarships

Sizars are Entrance Exhibitioners of limited means who have Commons (evening meal) free of charge. Application to be considered for the award of a sizarship should be made to the Admissions Office on or before 1 October of the year of entry. Sizarships are normally tenable for the first two years of an undergraduate course.

Taylor Exhibition

This exhibition was founded in 1978 by a gift from Mrs. Eileen Taylor to provide an Entrance Exhibition to be awarded each year for a two-year period at the discretion of the Professor of Music in consultation with the School of Music Committee.

Reid Entrance Exhibition

In 1888, the sum of £6,200 was received under the will and testament of the late Richard Touhill Reid to found additional sizarships or exhibitions in the nature of sizarships. The awards, which do not exceed five in number, are open only to students of limited means who are not eligible for the higher education grant and who are natives of the county of Kerry.

Students **not** eligible are those who:

(a) are above the standing of Junior Freshman (first year)

OR

(b) are graduates of any chartered university

OR

(c) have completed their nineteenth year before 1 May of the year in which they compete.

Reid entrance exhibitions are granted to qualified candidates on the basis of their public examination results and are tenable for two years. Exhibitioners have their Commons (evening meal) free, are supplied with a laptop and receive a salary of €6,000 per annum. During the Senior Freshman (second) year, exhibitioners normally compete for Foundation Scholarships. Those who fail to obtain such scholarships, but are deemed to have shown sufficient merit, have their exhibitions extended for two further years.

Applications should be addressed to the Admissions Office to arrive not later than 31 May of the proposed year of entry.

School prizes

Prizes are available to students from the following schools: the Abbey School, Tipperary; Portora Royal School, Enniskillen, Mount Temple Comprehensive, Dublin; St Andrew's College, Booterstown and Alexandra School, Dublin. A booklet setting out all the awards available in Trinity College may be obtained from the Admissions Office, West Theatre, Trinity College, Dublin 2.

Sport scholarships

Sports Bursaries and Scholarships are awarded to sportsmen and sportswomen of national/international standard who come to study and compete for Trinity.

Scholarships are awarded to first year students and allocated for a maximum of four years. Up to twenty bursaries, open to all sports, may be awarded in any given year and are tenable for one year. For further information, please contact the Department of Sport:

Tel: + 353 1 896 3581
Email: **sport@tcd.ie**
Web: **www.tcd.ie/sport**

Application forms can be downloaded from:
www.tcd.ie/Sport/Scholarship

Foundation scholarship

Students in the Senior Freshman (second) year may compete for a foundation scholarship. Up to seventy foundation scholars are elected annually on the basis of performance in the scholarship examination, which is usually held in the break between Hilary and Trinity (the second and third) terms. Foundation scholars are entitled to certain privileges, which include having their Commons (evening meal) free and an entitlement to College rooms free of charge during the academic year. Foundation scholarships are normally held for a term of five years.

Choral Scholarships – Trinity College Chapel Choir

Eight Choral Scholarships valued at €1,200 are available for all voices for the year 2007/08.

Trinity College Chapel Choir's chief aim is to continue the College's long tradition of sacred music in a liturgical context. It is a living tradition available to all who pass through the gates of College which has provided opportunities for many to weave their names into a rich tapestry as organists, singers, conductors and composers. It is both an educational and aesthetic experience. The Choral Scholars form the core and leadership of the Choir which is a mixed-voice choir of about twenty-five singers. Those considering applying for a Choral Scholarship should note that some previous choral experience is an advantage and the ability to read music is essential.

The Chapel Choir sings at two regular services during each week of lecture term and various special College and University services. The choir sings a wide variety of music from medieval to modern. Although the Choir sings at church services it is not a religious organisation: applicants of any faith, denomination or none are welcome to apply.

International students particularly find that membership of the Chapel Choir adds immensely to their College experience and that it opens up an element of University life which is often not available to them in their home universities.

Further information about the application procedure may be found on the Chapel Choir website:
http://www.csc.tcd.ie/~cchoir/

Services to Students and Schools

Access initiatives

The Trinity Access Programme (TAP) co-ordinates initiatives to facilitate increased participation at third level of students whose social, economic and educational experiences have prevented them from realising their full academic potential.

Since 1993, TAP has developed partnerships with designated disadvantaged primary and second level schools in the greater Dublin area. Through a variety of pre-entry supports, TAP aims to promote positive attitudes to education within families and the community at large, to increase the number of students who complete their second level education and who proceed to third level education. TAP also organises over thirty annual activities for teachers, students and parents including summer programmes, educational achievement awards, academic workshops, student shadowing days, a parents evening and early visits to Trinity, as well as preparatory courses for third level in partnership with further education colleges.

TAP offers a range of application routes to students of all ages and various supports including a writing resource centre, peer tutors and a designated study space equipped with IT resources and reference materials.

Higher Education Access Route (HEAR)

Places are available for Leaving Certificate pupils from schools affiliated to third level access programmes. TAP provides a range of financial, academic, personal guidance and social supports to students who accept places in Trinity.

Applicants are required to satisfy the minimum academic standard of the University (the matriculation requirements – see page 21) and, where stated, meet any specific course requirements. However, the entry level for admission (e.g. Leaving Certificate points) may be slightly lower than the competitive academic entry level.

Students must apply to the Central Applications Office (CAO) (see page 18) and also submit a supplementary application form for the Higher Education Access Route (HEAR) to the Trinity Access Programme. HEAR application forms are available from school Guidance Counsellors, TAP Liaison Officers or College Access Offices. Formal offers are made through the CAO following the publication of results.

TAP foundation course for young adults

This one-year course aims to equip students with the skills they will need to benefit from and participate in a third-level education course. It is open to Leaving Certificate pupils from schools affiliated to third level access programmes. Applicants should have taken the Leaving Certificate in the year of application or not more than two years prior to that. Minimum entry requirements are grade OD3 or above in five subjects and grade HC3 or above in one subject.

Application forms are available from the TAP Liaison Officers or Guidance Counsellors in schools. Students are not required to apply to the Central Applications Office.

TAP foundation course for mature students

This one-year course prepares mature students (EU students who are over twenty three years of age on 1 January of the proposed year of entry) for entry to undergraduate studies at Trinity College and other third-level institutions. There are no standard educational requirements but evidence of a particular interest in studying at university and strong personal motivation is essential.

Application forms are available from the Trinity Access Programme office. Students are not required to apply to the Central Applications Office.

Find out more at **tcd.ie/Trinity_Access**

Schools liaison

Members of staff from the Admissions Office and from academic departments participate in liaison activities with schools nationwide.

Open Day

The Trinity Open Day is open to all second level pupils in their final year of school, parents and teachers and is held annually in December. For students commencing in October 2007 the Open Day will be held on Wednesday 13 December 2006.

Information Day

Each year Trinity arranges an information day for Transition Year pupils. Pupils and their teachers are invited to attend workshops and presentations in various subject areas and members of the Admissions Team are available to give advice on specific subject requirements. The information day can be hosted in a town outside Dublin.

If you would like the information day to be hosted in your town please contact the Admissions Liaison Officer by telephone at 01 896 3992 or by email to **schools.liaison@tcd.ie**

Careers Conventions

Trinity College attends over thirty regional Careers Conventions and Education Exhibitions each year throughout Ireland. At these events prospective students can find out about Trinity courses, specific entry requirements and student life at Trinity. For details of Education and Careers Conventions in your area contact the Guidance Counsellor in your school or local adult education college.

School Visits

Staff from Trinity are available to visit schools on an individual basis. Over fifty schools nationwide are visited each year by either academic staff or members of the Admissions Team.

If you would like to arrange a visit to your school please contact the Admissions Liaison Officer by telephone at 01 896 3992 or by email to **schools.liaison@tcd.ie**

Visiting Trinity

The Trinity College campus is an open campus and visitors are welcome at all times. The Book of Kells is on display in the Old Library and second level students may visit the Book of Kells and library exhibition free of charge. It is advised that groups book in advance.

If you wish to arrange a group visit to the College please contact the Admissions Liaison Officer by telephone at 01 896 3992 or by email to **schools.liaison@tcd.ie**

How to Apply

EU applicants

An EU applicant is a person:

(a) who is ordinarily resident in the EU and who will have received full-time post primary education in the EU for three of the five years immediately preceding admission

OR

(b) who is ordinarily resident in the EU and who will have worked full-time in the EU for three of the five years immediately preceding admission

OR

(c) who holds a passport from an EU state and has received all full-time post primary education in the EU

OR

(d) who has official refugee status or has been granted humanitarian leave to remain in the State

All other applications are considered to be non-EU applications (see page 20 for further information).

A student's registered status (EU/non-EU) cannot be changed during a programme for which he/she is registered.

Note

'Immediately preceding admission' refers to the three-year period October 2004 – October 2007.

Where the status of a CAO application is not clear the Admissions Office will contact applicants in March/April to verify that their application is in accordance with the EU definition above. Supporting documentation may be required.

EU enquiries

All enquiries from EU applicants concerning undergraduate admission should be addressed to:

The Admissions Office, West Theatre, Trinity College, Dublin 2
Tel: + 353 1 896 1039/2003, Fax: + 353 1 872 2853
Email: **admissns@tcd.ie**
Website: **www.tcd.ie/Admissions**

EU applications

Application for admission (except where otherwise stated) should be made to the Central Applications Office.

Applications may be submitted online – see the CAO website: **www.cao.ie**

Alternatively, forms may be obtained from your school or from:
The Central Applications Office (CAO)
Tower House, Eglinton Street, Galway
Tel: + 353 91 509 800, Fax: + 353 91 562 344

Applicants with a disability

If you will require particular supports or arrangements due to a disability or specific learning difficulty, it is important that Trinity knows in advance of admission. Disclosure of a disability or specific learning difficulty will not adversely affect your application in any way.

There is a supplementary admissions procedure for students with disabilities.

You must apply via the Central Applications Office (CAO) by 1 February and indicate on the on the first page of the application form that you have a disability/specific learning difficulty which is the basis for seeking reasonable accommodations/support in either the application process or in pursuing your College career. CAO will forward a supplementary application form to all students who indicate a disability/specific learning difficulty.

To be eligible for inclusion in the supplementary admissions procedure the following criteria must be met:

- A completed CAO Supplementary Information Form is returned to the CAO with the appropriate documentation.
- The specific disability documentation provided is deemed acceptable. In the case of students with specific learning difficulties specific criteria apply: see **tcd.ie/disability/services/admissions.php**
- Students satisfy the matriculation requirements of the University; meet, where applicable, any specific course requirements, and are competitive.

Where demand for places exceeds the number of places available, places are awarded on merit.

Students with dyslexia/specific learning difficulties and students with profound hearing impairment may be eligible to request exemption from the matriculation requirement to present a language other than English. Details of specific criteria are available from **tcd.ie/disability/services/admissions.php**

For more information, including guidelines for the completion of CAO supplementary admissions forms, see **tcd.ie/disability/services/admissions.php**

Mature students

All undergraduate courses in Trinity are open to mature applicants. Mature student applicants are not required to satisfy the normal matriculation requirements and are not required to meet competitive academic entry levels, e.g., Leaving Certificate points, but are considered in the first instance on the basis of how relevant their life, work and educational experiences are to the course(s) that they wish to pursue.

In addition, all applicants should demonstrate an interest in and a knowledge of their course choice(s).

In order to apply to Trinity as a mature applicant you must:

- be an EU applicant (see page 18)
- be 23 years of age on 1st January 2007
- submit a CAO application form to the Central Applications Office (CAO) by 1 February 2007
- submit a Trinity College Mature Student Supplementary Application Form (required for all CAO courses with the exception of nursing to the Admissions Office by 1 February 2007.

Late applications will not be considered.

CAO Forms should be obtained from and returned to the CAO, Tower House, Eglinton Street, Galway. Tel: 091 509 800 or you may apply online at: **www.cao.ie**

Mature Student Supplementary Application Forms should be obtained from and returned to the Admissions Office, West Theatre, Trinity College, Dublin 2. Tel: 01 896 1039

Email: **admissns@tcd.ie**, Website: **tcd.ie/Admissions**

Mature student applicants to psychology will be required to attend an aptitude test. Applicants to all courses may be required to attend an interview. Interviews are held between mid-March and mid-April.

Certain courses may also require applicants to meet other assessment criteria:

- applicants to Engineering, MSISS, Engineering with management and Computer Science courses are required to present HC3 in Leaving Certificate mathematics or equivalent
- applicants to music are required to attend a written test (see course information for further details)
- applicants to English may be required to write an essay

Please refer to the publication Mature Students Guidelines available with the application form for information on additional assessment for specific courses.

Trinity will inform mature applicants of the outcome of their application before the end of May to allow successful applicants the maximum time possible to prepare for the start of the academic year 2007. Official offers to successful applicants are made through the CAO in early July. To secure your place you must return a formal acceptance notice to the CAO.

Receiving an offer

Offers to all successful EU applicants (school leavers) are made through the CAO in August following the publication of Leaving Certificate and GCE A level results. The University does not make conditional offers prior to the publication of examination results; however, the level at which entry was granted in 2006 may give an indication of the level of achievement required for 2007. Applicants are advised that the competitive entry level may fluctuate. See **tcd.ie/Admissions**

Offers to successful mature student applicants and to candidates who have deferred entry from the previous year will be issued by CAO in early July.

Accepting an offer

Applicants who wish to accept an offer of a place must return a formal acceptance notice to CAO, either on-line or in hard copy, within the specified time period. If an acceptance is not returned in time the offer will lapse.

Please note that if an applicant does not follow the instructions in full, the right is reserved to cancel the offer.

Deferred entry

Students who have received an offer notice may apply to defer their entry to Trinity for one year. On receipt of a CAO Offer Notice:

1 Do NOT accept the offer.

2 Write IMMEDIATELY to the Admissions Officer, Trinity College, Dublin 2 setting out the reason(s) for the request.

3 The part of the Offer Notice relating to the relevant Trinity course must be attached to the letter.

4 The letter must arrive in the Admissions Office at least two days before the "Reply Date" shown on the Offer Notice. Trinity will notify the applicant of the decision in writing.

5 In order to take up the deferred place, the applicant must re-apply through the CAO by 1 February 2008 and the deferred course must appear as the first and only choice on this application.

A place may be deferred for one academic year only.

Non-EU students

Non-EU applicants to medicine and/or dental science should contact the Admissions Office, West Theatre, Trinity College, Dublin 2. Tel: + 353 896 1532
Email: **admissns@tcd.ie**

Enquiries from non-EU applicants concerning undergraduate admission to all other courses should be addressed to:
Office of International Student Affairs
East Theatre, Trinity College, Dublin 2
Tel: + 353 1 896 2683/2011
Fax: + 353 1 677 1698
Email: **isa.office@tcd.ie**

The closing date for applications is 1 February 2007.

In order to be considered for admission all applicants are required to satisfy the University matriculation requirements (see page 21) and, where relevant, meet any specific course requirements (see pages 24-29).

Due to restrictions on the number of clinical placements available in the School of Nursing and Midwifery, non-EU students may only be considered for vacant places.

Receiving an offer & accepting a place

Successful non-EU applicants will be notified in writing by Trinity College. Students who wish to accept an offer of a place in the College will be required to return an acceptance fee within a specified time. Details of the due date and method of payment will be included in the offer letter.

Deferred entry

Non-EU students applying for deferred entry should contact the Admissions Officer in writing prior to the deadline for acceptance of their offer.

One-year and one-term students

Limited places are available for EU and non-EU students who are already enrolled in another University and do not wish to undertake a four-year course. While students may wish to be admitted for one term only, at Trinity preference is given to those who wish to attend for a full academic year.

Application forms and further information are available from the Office of International Student Affairs.

Completed applications must be received by 1 March 2007.

Fees information

Students who accept an offer of a place will be contacted by the College Fees Office with regard to payment of fees due. Students eligible for inclusion in the government's Free Fees Initiative will be liable for the Student Charge (€750 in 2005) and the Union of Students in Ireland (USI) membership levy (€8 in 2005) but will not be liable for tuition fees.

Students eligible for a local authority grant will be liable only for the Union of Students in Ireland (USI) membership levy.

Students will not be permitted to register without bank-receipted evidence of payment of all relevant amounts.

Tuition fees

Students eligible for inclusion in the government's Free Fees Initiative will have their tuition fees paid (see: **www.irlgov.ie/educ/).**

EU students who are not eligible for inclusion in the initiative pay the EU portion of the fees.

Students who are not classified as EU students (see page 18) pay higher fees, termed 'economic fees', than those payable by EU students.

List of fees

General fee information can be found in the College Calendar, available to download from **tcd.ie/Secretary/College_Calendar/Part_I/**

For up-to-date information on tuition fees please see **tcd.ie/Treasurers_Office**

Admission Requirements 2007

Admission

To qualify for admission to a degree course at the University you must:

(i) attain the standard of general education prescribed for matriculation (see matriculation requirements);

(ii) where applicable, satisfy requirements for the courses to which you are seeking admission;

(iii) where there is competition for places, have good enough examination results to be included among those to whom offers are made.

Where there is competition for places on a given course, applicants who (i) have attained the standard prescribed for matriculation and (ii) have fulfilled the specific requirements for the course in question, are ranked on the basis of their best six Matriculation/Leaving Certificate subjects from one academic year, their best four Advanced GCE (A level) subjects from one academic year, or their best three Advanced GCE (A level) subjects from one academic year plus one Advanced Subsidiary (AS level) in a different subject from the same or preceding academic year only in accordance with the numeric values set out below.

Matriculation requirements: Irish Leaving Certificate

To be considered for admission to the University you must have the following qualifications:

1 A pass in English.

2 A pass in mathematics (including alternative ordinary mathematics) and a pass in a language other than English

OR

a pass in Latin and a pass in a subject other than a language.

3 A pass in three further subjects.

4 Six subjects must be presented in all and three of these must be of a standard of at least grade C on higher Leaving Certificate papers or at least grade C in the University Matriculation examination.

A pass for requirements 1, 2 and 3 means grade D or above on ordinary or higher papers in the Leaving Certificate and grade D or above in the University Matriculation examination.

Irish at foundation level is not acceptable for matriculation or course requirements.

Students may combine grades achieved in different sittings of their Leaving Certificate/Matriculation examinations for the purpose of satisfying matriculation and/or course requirements.

Students may not combine different sittings of their Leaving Certificate/Matriculation examinations for the purposes of scoring.

5 All subjects in the Leaving Certificate examination, with the exception of Irish at foundation level, are acceptable.

6 Combinations of Leaving Certificate subjects not permitted:

Physics/Chemistry may not be presented with physics or chemistry

Biology may not be presented with botany or zoology

Biology and agricultural science may both be used for scoring purposes but biology may not be presented with agricultural science as the two higher level subjects required for Dental Science, Medicine, Medicinal Chemistry, Physiotherapy or Science

Art and music may not be offered as two of the three higher Leaving Certificate grades for matriculation purposes but both may be used for scoring purposes

Leaving Certificate scoring system

Grade	Higher Level	Ordinary Level
A1	100	60
A2	90	50
B1	85	45
B2	80	40
B3	75	35
C1	70	30
C2	65	25
C3	60	20
D1	55	15
D2	50	10
D3	45	5

An applicant's six best results from one sitting of the Leaving Certificate will be counted for scoring purposes. Applicants may combine results from the Leaving Certificate and the Trinity Matriculation examination of the same year for scoring purposes.

Leaving Certificate Vocational Programme Link Modules are accepted for scoring purposes only and are awarded the following points:

Distinction – 70, Merit – 50, Pass – 30.

Matriculation requirements: GCSE/Advanced GCE (A level)

To be considered for admission to the University you must have the following qualifications:

1 A pass in English.

2 A pass in mathematics and a pass in a language other than English

OR

a pass in Latin and a pass in a subject other than a language.

3 A pass in three further subjects.

4 Six subjects must be presented in all and two of these must be of a standard of at least grade C on Advanced GCE (A level) papers.

A pass for requirements 1, 2 and 3 means grade C or above on GCSE or Advanced Subsidiary GCE (AS) papers.

Advanced Subsidiary GCE (AS) level grades will not be accepted for the purpose of satisfying specific course requirements.

Students may combine grades achieved in different sittings of their Advanced GCE (A level) examinations for the purpose of satisfying matriculation and/or course requirements.

5 Acceptable subjects:

Vocational Advanced Subsidiary, Vocational A level, National Vocational and Key Skills qualifications are not accepted for matriculation or scoring purposes.

GCSE/Advanced GCE (A level) subjects set by recognised examination boards are, in principle, acceptable for consideration with the following exceptions:

Physical education and general studies are not acceptable.

Applicants who require advice about subject eligibility should contact the Admissions Office.

6 Combinations of A level subjects not permitted:

Art may not be presented with history of art

Biology may not be presented with botany or zoology

English literature may not be presented with English language

Environmental science may not be presented with biology or geography

Film studies may not be presented with media and communication studies

Science may not be presented with chemistry, physics or biology

Not more than one specialised endorsed programme in art may be presented.

Art and music may not be offered as the two Advanced GCE (A level) grades for matriculation purposes but both may be used for scoring purposes.

Advanced GCE (A level) scoring system

	AS	A2
A	60	150
B	50	130
C	40	105
D	30	80

An applicant's score will be calculated on the basis of either of the following:

1 their best 4 GCE Advanced level (A2) subjects from one academic year

OR

2 their best 3 GCE Advanced level (A2) subjects from one academic year plus one Advanced Subsidiary level (AS) in a different subject from the same or the preceding academic year only.

Students may combine grades achieved in different sittings of their GCE Advanced level (A2) examinations for the purpose of satisfying matriculation and/or course requirements only.

For entry to undergraduate programmes commencing in the academic year 2007-08, Trinity College proposes to apply a two-stage admissions procedure whereby it would, in the first instance, allocate ranges of CAO points to A-level grades in order that A-level applications can be compared with Leaving Certificate applications. Places on courses will then be determined based on the proportions of eligible applications coming from the Leaving Certificate and A-level examination systems. Once these proportions are determined, places on the course in question will be offered to applicants coming from each respective examination system group on the basis of ranking within that group.

Trinity College will continue to allocate fixed points to A-level grades for the purpose of determining student's ranking only. These points will not be used to compare A-level students against Leaving Certificate students. Further details are available at **www.tcd.ie/admissions**

Trinity College reserves the right to make the final decision in all matters pertaining to the admissions process.

Other school leaving qualifications

Applicants who are presenting a second level qualification other than Leaving Certificate or Advanced GCE (A level) should consult the Trinity website (**tcd.ie/Admissions**) or contact the Admissions Office for details of the relevant matriculation and course requirements.

English Language

If English is not your first language you will be required to provide evidence of English language proficiency. Please refer to the College website for details of acceptable examinations and required grades.

tcd.ie/Admissions/admissions_info/matric_requirements.php

Age

Date of birth must be before 15 January 1991 for applicants seeking admission in 2007.

University matriculation examination

A matriculation examination, graded in equivalent terms to grades used in higher Leaving Certificate examination papers, is held in Trinity College every year, usually in April. The subjects of the matriculation examination are Biblical Studies and Geology. You may take one or both of the subjects available, but you should note that the range of University matriculation examination subjects available is not sufficient for the fulfilment of all matriculation requirements.

The closing date for application for the examination is 1 March. Application forms and a syllabus can be obtained from the Admissions Office, West Theatre, Trinity College, Dublin 2.

Course requirements 2007: TR001 Two-subject Moderatorship – Level 8 (HD)

The two-subject moderatorship is a joint honors programme. Students select two subjects from the list below (for permitted combinations see facing page) and pursue both to degree level. Usually both subjects are studied for three years and one subject only is studied in the fourth and final year. An honors degree is awarded in both subjects.

Students are not permitted to commence two new languages. Students wishing to combine two languages within TSM are required to present at least one of the chosen languages at grade C3 of better on a higher level Leaving Certificate paper or equivalent.

		Specific Subjects Required (reference is to higher level Leaving Certificate	Available Places in	Minimum Points	
Subject Name		**or Advanced GCE (A level) grades)**	**2006**	**2005**	**Pg**
AH	Ancient history and archaeology	none	23	450	32
BT	Religions and theology	none	24	385	33
CC	Classical civilisation	none	29	445	35
DR	Drama studies	see note 12	20	450	40
EI	Early Irish	C3 in Irish	10	430	59
EC	Economics	see note 1	43	450*	81
EN	English literature	C3 in English	81	505*	42
FS	Film studies	none	20	460	46
FR	French	C1 in French	84	390*	48
GG	Geography ‡	none	35	450	49
GE	German	C1 in German	32	405	50
GK	Greek	C3 in Greek or C3 in a language excluding English	10	445	53
HS	History	none	40	510*	55
AR	History of art and architecture	none	28	490*	58
IT	Italian	C3 in Italian or C3 in a language excluding English	30	390	62
JS	Near Eastern and Jewish studies	none	10	490	63
LT	Latin	C3 in Latin or C3 in a language excluding English	10	395	65
MT	Mathematics	B3 in mathematics	10	510	167
MI	Modern Irish	C3 in Irish	30	335	60
MU	Music	see note 5	8	520*	66
PH	Philosophy	none	43	475*	88
PS	Psychology	none	17	565*	92
RU	Russian	C3 in Russian or C3 in a language excluding English	36	335	69
SC	Sociology	none	59	450*	95
SP	Spanish	C3 in Spanish or C3 in a language excluding English	39	405*	70

‡ Geography may also be read as part of a moderatorship course in science – TR071. See page 26 for specific course requirements for science.

* Not all applicants at this level were offered places

Two-subject moderatorship (TR001): permitted combinations

TR001 must NOT be entered on the CAO Application Form.

Each possible combination of two subjects has a unique three-digit code. TR followed by the three-digit code of your chosen TSM combination should be entered on the CAO application form e.g. French and German TR289.

The absence of a code in a grid position indicates that the corresponding combination of subjects is not permitted.

	AH	BT	CC	DR	EI	EC	EN	FR	FS	GG	GE	GK	HS	AR	JS	MI	IT	LT	MT	MU	PH	PS	RU	SC	SP
AH	-	102	-	-	-	-	106	107	-	-	-	110	112	113	547	-	115	116	-	-	-	-	121	-	123
BT	102	-	133	-	156	-	136	137	310	-	139	140	142	143	-	144	-	146	-	-	149	150	151	152	153
CC	-	133	-	185	-	-	166	167	-	-	-	170	172	173	548	174	175	176	-	-	179	-	181	-	183
DR	-	-	185	-	-	-	276	306	311	-	366	395	-	485	-	515	545	575	-	635	-	-	725	755	785
EI	-	156	-	-	-	-	-	-	-	-	-	-	456	486	549	-	-	576	-	-	-	-	-	-	-
EC	-	-	-	-	-	-	-	-	-	198	199	-	202	-	-	-	-	-	207	-	209	210	211	212	213
EN	106	136	166	276	-	-	-	257	312	-	259	260	262	263	550	264	265	266	267	268	269	270	271	272	273
FR	107	137	167	306	-	-	257	-	313	-	289	-	292	293	551	294	295	296	297	298	299	300	301	302	303
FS	-	310	-	311	-	-	312	313	-	-	314	-	-	-	319	315	316	-	-	-	-	-	317	-	318
GG	-	-	-	-	-	198	-	-	-	-	-	-	322	-	-	-	-	-	327	-	329	330	-	332	-
GE	-	139	-	366	-	199	259	289	314	-	-	-	352	353	552	354	355	-	357	-	359	-	361	362	363
GK	110	140	170	395	-	-	260	-	-	-	-	-	382	-	553	-	385	-	-	-	389	-	391	-	393
HS	112	142	172	-	456	202	262	292	-	322	352	382	-	443	554	444	445	446	-	448	449	-	451	452	453
AR	113	143	173	485	486	-	263	293	-	-	353	-	443	-	555	-	475	476	-	478	479	-	-	482	483
JS	547	-	548	-	549	-	550	551	319	-	552	553	554	555	-	556	-	557	-	-	558	559	560	561	562
MI	-	144	174	515	-	-	264	294	315	-	354	-	444	-	556	-	505	506	-	508	509	-	511	512	513
IT	115	-	175	545	-	-	265	295	316	-	355	385	445	475	-	505	-	536	-	-	539	540	541	542	543
LT	116	146	176	575	576	-	266	296	-	-	-	-	446	476	557	506	536	-	567	-	569	-	571	-	573
MT	-	-	-	-	-	207	267	297	-	327	357	-	-	-	-	-	-	567	-	598	599	600	-	-	-
MU	-	-	-	635	-	-	268	298	-	-	-	-	448	478	-	508	-	-	598	-	629	630	-	-	-
PH	-	149	179	-	-	209	269	299	-	329	359	389	449	479	558	509	539	569	599	629	-	660	661	662	-
PS	-	150	-	-	-	210	270	300	-	330	-	-	-	-	559	-	540	-	600	630	660	-	-	692	-
RU	121	151	181	725	-	211	271	301	317	-	361	391	451	-	560	511	541	571	-	-	661	-	-	-	723
SC	-	152	-	755	-	212	272	302	-	332	362	-	452	482	561	512	542	-	-	-	662	692	-	-	753
SP	123	153	183	785	-	213	273	303	318	-	363	393	453	483	562	513	543	573	-	-	-	-	723	753	-

Course requirements 2007: Honors Bachelor Degrees – Level 8 (HD)

Course Code	Name	Specific Subjects Required (reference is to higher level Leaving Certificate or Advanced GCE (A level) grades)	Available Places in 2006	Minimum points in 2005	Pg
TR002	Music	see note 5	10	475	66
TR003	History	none	38	460	55
TR004	Law	none	77	530*	85
TR005	Philosophy	none	17	460*	88
TR006	Psychology	none	31	545	92
TR007	Clinical speech and language studies	see note 4	26	515*	37
TR008	Religions and theology	none	21	335	33
TR009	Music education	see note 5	10	450	68
TR010	Computer science, linguistics and German	C3 in mathematics and C1 in German	10	440	112
TR011	Computer science, linguistics and French	C3 in mathematics and C1 in French	10	440	112
TR012	History and political science	none	14	545	56
TR013	Computer science, linguistics and Irish	C3 in mathematics and B3 in Irish	5	-	112
TR014	Philosophy and political science	none	10	500	90
TR018	Law and French	C1 in French	12	560*	87
TR019	Law and German	C1 in German	12	510	87
TR021	Classics	C3 in Greek or Latin	15	430	36
TR022	Early and modern Irish	C3 in Irish	15	315	59
TR023	English studies	C3 in English	34	500*	42
TR024	European studies	see note 8	33	530	44
TR025	Drama and theatre studies	see note 12	12	510	40
TR026	Germanic languages	C1 in German	8	405	52
TR027	Irish Studies	C3 in a language excluding English	20	n/a	75
TR031	Mathematics	B3 in mathematics	30	410	167
TR032	Engineering	C3 in mathematics	175	445*	101
TR033	Computer science	C3 in mathematics	65	365	110
TR034	Management science & information systems studies	C3 in mathematics	24	455*	113
TR035‡	Theoretical physics	B3 in mathematics and B3 in physics	35	445	172
TR038‡	Engineering with management	C3 in Mathematics	20	355	115
TR051	Medicine	see note 3	60	590*	129
TR052	Dental science	see note 3	32	555*	121
TR053	Physiotherapy	see notes 1 and 6	40	540*	142
TR054	Occupational therapy	see note 7	40	505*	139
TR055	Radiation therapy	see note 14	25	510	144
TR071‡	Science	see notes 1 and 2	290	440*	149
TR072	Pharmacy	see notes 1 and 9	70	555*	140
TR073‡	Human genetics	see notes 1 and 10	12	545	166
TR074‡	Chemistry with molecular modelling	see note 11	15	410	165
TR075‡	Medicinal chemistry	see notes 1 and 2	25	465*	169
TR076‡	Physics and chemistry of advanced materials	see notes 1 and 13	20	350	170
TR081	Business, economic and social studies	see note 1	216	470*	77
TR083	Sociology and social policy	none	28	455	96
TR084	Social studies (Social Work)	none	30	480	97
TR085	Business studies and French	C1 in French and see note 1	15	485	80

TR086	Business studies and German	C1 in German and see note 1	20	400	80
TR087	Business studies and Russian	C3 in a language excluding English & see note 17		405	80
TR091	General nursing	See note 15	96	380*	134
TR092	General nursing (mature applicant)	See note 17	17	160*	134
TR093	General nursing Adelaide School of Nursing	See notes 15 & 16	30	395	134
TR094	General nursing (mature applicant) – Adelaide School of Nursing	See note 16 & 17	5	166	134
TR095	Psychiatric nursing	See note 15	20	320	134
TR096	Psychiatric nursing (mature applicant)	See note 17	25	134	
TR097	Intellectual disability nursing	See note 15	20	300	134
TR098	Intellectual disability nursing (mature applicant)	See note 17	20	132	134
TR911	Children's and general integrated nursing	See note 15	20	-	134
TR912	Children's and general integrated nursing (mature applicant)	See note 15 & 17	5	-	134
TR913	Midwifery	See note 15	20	-	133
TR914	Midwifery (mature applicant)	See note 15 &17	20	-	133

NDP NATIONAL DEVELOPMENT PLAN

‡ These courses are either fully or partly funded by the Irish Government under the National Development Plan, 2000-2006 and aided by the European Social Fund (ESF) under the 2000-2006 Community Support Framework (CSF).

* Not all applicants at this level were offered places

Optional courses

The University of Dublin is renowned internationally for the breadth and depth of the degrees it awards. Trinity is dedicated to encouraging the following qualities in its students and graduates: inquisitiveness and analytical ability; creativity and reflectiveness; adaptability; breadth of reading; ethical responsibility; international outlook; articulacy; literacy; and numeracy. The Broad Curriculum is an exciting initiative in College which promotes these attributes by encouraging students to learn a wide range of skills.

Extra language skills

Optional one-year language courses (specifically for students who are not studying a language as part of their degree) are available. The courses are designed to help you develop practical communication skills for study or work experience abroad. Students who successfully complete a language module in the Junior Freshman (first) year are awarded a certificate and are eligible to take a further module in the same language in the Senior Freshman (second) year. Language modules may also be taken by students in other years under the Broad Curriculum.

Options available are:

- French for non-beginners
- German for non-beginners
- Spanish for non-beginners
- German for beginners
- Italian for beginners

For French, Spanish and German for non-beginners, the minimum entry requirement is a Leaving Certificate (or equivalent) qualification in the relevant language. Further details and an application form will be included in the information pack sent to new students following acceptance of offers.

Broad Curriculum

The Broad Curriculum is designed to broaden and enhance the educational experience of undergraduate students. The Broad Curriculum involves a number of initiatives including:

- **Cross-faculty courses** that provide students with the opportunity to study outside their principal discipline. Trinity offers 13 Broad Curriculum courses in literature, film studies, art and society, philosophy, psychology, politics, development economics, globalisation, the Irish landscape, environmental change, environmental law, business studies, and history. The courses are designed specifically for students who are studying another subject area and are usually available to students in the Senior Freshman (second) or Junior Sophister (third) year.
- **E-learning** to promote the use of the internet and other technologies in delivering courses to enhance students' IT skills.
- **Small group teaching** that provides students with close contact to lecturing staff and the opportunity to develop effective communication skills.
- **Language modules** - see above entry.

Find out more at **www.tcd.ie/Broad_Curriculum**

Notes

1 A mathematics requirement of grade C on the ordinary or grade D on the higher Leaving Certificate paper or grade B at GCSE level.

2 Two higher level grade Cs from the following subjects: physics, chemistry, biology, physics/chemistry, mathematics, geology, geography, applied mathematics, agricultural science. Physics/chemistry may not be presented with physics or chemistry. Agricultural science may not be presented with biology. Applied mathematics may not be presented with mathematics.

3 At least a higher level grade B and a higher level grade C in two of physics, chemistry, biology, physics/chemistry, agricultural science. Physics/chemistry may not be presented with physics or chemistry. Agricultural science may not be presented with biology. If you do not have some qualification in physics, you must present mathematics at grade C on the ordinary Leaving Certificate paper, grade D on the higher Leaving Certificate paper or grade B at GCSE level.

4 A mathematics requirement of grade D on the ordinary or higher Leaving Certificate paper or grade C at GCSE level. A grade C at higher level in one of English, French, German, Irish, Italian, Russian, Spanish and a grade C at higher level in one of mathematics, applied mathematics, physics, chemistry, biology, physics/chemistry, agricultural science. If you are presenting Advanced GCE (A levels), a grade C at A level is required in one of English, French, German, Irish, Italian, Russian, Spanish and a grade B at GCSE level in one of physics, chemistry, biology, mathematics or a grade C at A level in one of physics, chemistry, biology, mathematics and a grade B at GCSE level in one of English, French, German, Irish, Italian, Russian, Spanish.

5 This is a restricted entry course, therefore, applications must be submitted to the CAO by 1 February of the proposed year of entry. If you indicate music or music education as a choice of subject you will be called for an entrance test on 31 March (provisional date). This will include a simple harmony paper, an ear test, a paper on general musical knowledge and background and an essay paper. Some applicants will be called for interview (and in the case of TR009 applicants, further tests) in early May when the final selections will be made.

6 Two higher level grade Cs from the following subjects: physics, chemistry, biology, physics/chemistry, mathematics, agricultural science. Physics/chemistry may not be presented with physics or chemistry. Agricultural science may not be presented with biology.

7 One higher level grade C from the following subjects: physics, chemistry, biology, physics/chemistry, agricultural science.

8 Students entering this programme will study two languages from French, German, Italian, Polish, Russian and Spanish. Italian, Polish, Russian and Spanish are available from beginner level. No student may study more than one language as a beginner. Students accepted onto this programme, subject to the above regulations, will normally have at least a higher level grade C in the Leaving Certificate or equivalent, in two languages other than English and Irish (C1 in the case of French and German and C2 in the case of Spanish if non-beginner). Students who have only one language (other than English or Irish) may also be admitted, subject to the above regulations, if they achieve a higher level grade B in the language in the Leaving Certificate, or equivalent.

9 A higher level grade C in chemistry and a higher level grade C in one of: physics, biology, mathematics, geology, geography, applied mathematics and agricultural science.

10 Two higher level grade Cs from the following subjects: biology, chemistry, physics, physics/chemistry, mathematics and applied mathematics. Physics/chemistry may not be presented with chemistry or physics. Mathematics may not be presented with applied mathematics.

11 A higher level grade C in mathematics and a higher level grade C in one of physics, chemistry, physics/chemistry or biology.

12 This is a restricted entry course, therefore, applications must be submitted to the CAO by 1 February of the proposed year of entry. If you indicate drama studies or drama and theatre studies as a choice of subject you will be sent a questionnaire to complete in March. On the basis of the completed questionnaire some applicants will be called to attend a workshop and interview (during April/May) before final selections are made.

13 Two higher level grade Cs from the following subjects: physics, chemistry, biology, physics/chemistry, agricultural science, mathematics and applied mathematics.

14 One higher level grade C from the following subjects: physics, chemistry, biology, physics/chemistry.

15 A grade D on the ordinary or higher paper in mathematics and in one of biology, physics, chemistry, physics/chemistry or agricultural science.

16 This is a restricted entry course, therefore, applications must be submitted to the CAO by 1 February of the proposed year of entry. The Adelaide Hospital Society, which is a voluntary charitable organisation, nominates suitable applicants each year to the Adelaide School of Nursing. In selecting applicants, the Society has regard to its particular obligation to applicants from the Protestant community and also to members of inter-church families. Applicants will be sent an additional application form, to be returned to the Adelaide Hospital Society. On the basis of information provided, applicants may be called to interview before final selections are made.

17 This is a restricted entry course, therefore, applications must be received by the CAO by 1 February of the proposed year of entry. Mature applicants to Nursing are NOT required to submit a Mature Student Supplementary Application form to Trinity College. If you indicate nursing as a mature student the Nursing Career Centre will invite you to a written assessment. Those applicants who achieve a specific standard at the assessment will be called to interview.

Course requirements 2007: Ordinary Degree and Diploma Courses

Course Code	Name	Specific subjects required	Available Places in 2006	Pg
TR801	Dental nursing (diploma)	See notes A & C	20	125
TR802	Dental hygiene (diploma)	See note B & C + Restricted entry	8	124
TR803	Dental technology (ordinary degree)	See notes A & C + Restricted entry	6	126

Notes

A A pass in English, mathematics and in four other subjects, one of which must be physics, chemistry, biology, agricultural science or physics/chemistry.

Of the six subjects presented two must be of a standard of at least grade C3 on ordinary Leaving Certificate papers. The remaining four subjects must be presented to a standard of at least grade D3 on ordinary Leaving Certificate papers.

B A pass in English, mathematics and in four other subjects, one of which must be physics, chemistry, biology, agricultural science or physics/chemistry.

Of the six subjects presented two must be of a standard of at least grade C3 on higher Leaving Certificate papers. The remaining four subjects must be presented to a standard of at least grade D3 on ordinary Leaving Certificate papers.

C Applications may also be considered from mature applicants who do not satisfy the academic entry requirements but can demonstrate appropriate experience relevant to the course.

Applications for restricted entry courses must be submitted to the CAO by 1 February of the proposed year of entry.

Faculty of Arts and Humanities

Undergraduate programmes

TR001 Two subject moderatorship (allowing combinations of two of ancient history and archaeology, classical civilisation, drama studies, early Irish, economics, English literature, film studies, French, geography, German, Greek, history, history of art and architecture, Italian, Near Eastern and Jewish studies, Latin, mathematics, modern Irish, music, philosophy, psychology, religions and theology, Russian, sociology, Spanish)

TR002 Music

TR009 Music Education

TR003 History

TR007 Clinical speech and language studies

TR008 Religions and theology

TR012 History and political science

TR021 Classics

TR022 Early and modern Irish

TR023 English studies

TR024 European studies

TR025 Drama and theatre studies

TR026 Germanic languages

TR027 Irish Studies

Direct Entry (non-CAO) courses are available in Acting Studies, Deaf Studies, Irish Sign Language (English interpreting), Irish Sign Language teaching and Theology.

Arts courses at Trinity

While the arts subjects cover a very wide range, they have in common the study of the human mind and its historical, cultural and linguistic manifestations.

Some of the arts courses offered in Trinity have a strong vocational element, for example music education, acting studies or law. Many arts courses do not have a vocational focus but provide an excellent preparation for a wide variety of careers.

All are designed to develop high levels of analytic and communication skills: the ability to understand unfamiliar ideas and to look at familiar ideas in a new light, to work out your own ideas and express them lucidly and convincingly are skills you will acquire through an arts course. As work patterns change, mental flexibility is increasingly important. While a qualification in French, history of art or philosophy may not lead to employment in a specific field, it opens an enormous range of activities that make it particularly attractive for students who prefer not to tie themselves to a particular profession at the time they leave school.

Courses in arts are of three kinds:

Single honor courses:

In a single honor course one subject is studied almost exclusively for the four years, however most subjects encompass a range of disciplines. Single honor degrees are available in biblical and theological studies, classics, early and modern Irish, history, English, music, Germanic languages, Irish Studies and drama and theatre studies.

Specially designed 'packages' of different subjects:

These may be organised around a particular theme, as in the moderatorship in history and political science, philosophy and political science or European studies, or around the development of a particular skill, as in the moderatorship in computer science, linguistics, a language, music education or law and a language.

Joint honors two-subject moderatorship (TSM) programmes:

You choose two subjects from a list of possible combinations. In most combinations both subjects are studied equally for the first three years and one subject only is studied in the fourth year. The two subjects are taught as separate disciplines and both are taught to degree level.

What comes after graduation?

A high proportion of vacancies for new graduates are open to students of any discipline and while an arts degree may not

lead directly to one profession arts graduates can be found in everything from accountancy to voluntary organisations. The traditional openings for arts graduates have been in the public service, education, and the media. The arts graduate may have problems to face in selecting the right avenue, but there is no shortage of choices. Details of first destinations for graduates of all disciplines are available on the Careers Advisory Service website: **tcd.ie/Careers/students/**

Peer Learning in Languages

If you are a first year student studying a language at Trinity you may participate in Peer Learning sessions. Peer learning is run by students, for students. Sessions are held weekly and are facilitated by a second-year student (peer tutor) from your course. Peer tutors can offer advice and suggestions about how to study at university level. Students who participate are better prepared for exams and assignments, become responsible for their own learning and gain a greater understanding of the subject.

Reading the TSM table

The absence of a letter or number from a grid position in the table below means that the corresponding combination of subjects is not permitted.

1 Geography and history can be studied together according to a special pattern in which the study of both is continued for four years but with geography being the major component in the fourth year. Geography and history may also be studied under either pattern A or pattern B.

2 Greek and Latin can be studied together only in the context of the single honor course in Classics (TR021).

3 May be studied under pattern A or B combination.

A = both subjects are studied for four years

B = both subjects are studies for only three years and only one subject in the fourth year.

- When mathematics is studied with other subjects according to pattern B it can be studied for three years only; the other subject must be continued in the fourth year.

	Ancient history & archaeology	Religions and theology	Classical civilisation	Drama studies	Early Irish	Economics	English literature	Film studies	French	Geography	German	Greek	History	History of art & architecture	Italian	Near Eastern and Jewish studies	Latin	Mathematics*	Modern Irish	Music	Philosophy	Psychology	Russian	Sociology	Spanish
Ancient history & archaeology		B				B		B			B	B	B	B	B	B						B		B
Religions and theology	B		B		B		B	B	B		A	B	B	B			B		B		B	B	B	B	B
Classical civilisation		B		B			B		B			B	B	B	B	B	B		B		B		B		B
Drama studies			B				B	B	B		B	B		B	B		B		B	B			B	B	B
Early Irish		B											B	B		B	B								
Economics										**3**	**3**		B					**3**			B	B	B	**3**	B
English literature	B	B	B	B				B	B		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Film studies		B		B			B		B		B				B	B			B				B		B
French	B	B	B	B			B	B			B		B	B	B	B	B	B	B	B	B	B	B	B	B
Geography						**3**							**1**					**3**			**3**	B		**3**	
German		A		B		**3**	B	B	B				B	B	B	A		B	B		B		B	B	B
Greek	B	B	B	B			B						B		B	B	**2**				B		B		B
History	B	B	B		B	B	B		B	**1**	B	B		B	B	B	B		B	B	B		B	B	B
History of art & architecture	B	B	B	B	B		B		B		B		B		B	B	B			B	B			B	B
Italian	B		B	B			B	B	B		B	B	B	B			B		B		B	B	B	B	B
Near Eastern and Jewish studies	B		B		B		B	B	B		A	B	B	B			B		B		B	B	B	B	B
Latin	B	B	B	B	B		B		B			**2**	B	B	B	B		B	B		B		B		B
Mathematics*						**3**	B		B	**3**	B						B			B	A	B			
Modern Irish		B	B	B			B	B	B		B		B		B	B	B			B	B		B	B	B
Music				B			B		B				B	B				B	B		B	B			
Philosophy		B	B			B	B		B	**3**	B	B	B	B	B	B	B	A	B	B		B	B	**3**	
Psychology		B				B	B		B	B					B	B		B		B	B			B	
Russian	B	B	B	B		B	B	B	B		B	B	B		B	B	B		B		B				B
Sociology		B		B		**3**	B		B	**3**	B		B	B	B	B			B		**3**	B			B
Spanish	B	B	B	B		B	B	B	B		B	B	B	B	B	B	B		B				B	B	

Ancient history and Archaeology

COURSE CODE: TR001 (TSM)

PLACES 2006: 23

POINTS 2005: 450

Ancient history and archaeology cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth and final year. An honors degree is awarded in both subjects.

For subjects that combine with ancient history and archaeology see p.31.

Why study ancient history and archaeology?

Modern western society owes its origins to the ancient Greek and Roman world. These two great civilisations are far from dead; indeed, they have continued for centuries to influence humankind. The study of ancient history and archaeology enables you to undertake an in-depth examination of the historical developments and cultural and artistic achievements of the Greeks and Romans and their relations with neighbouring cultures in the Mediterranean and beyond.

Is this the right course for you?

No knowledge of Greek or Latin is required for this course. If you have a particular interest in the history, art history and archaeology of the Greek and Roman worlds you will enjoy this subject.

Course content

Issues addressed on this programme include the emergence and character of urban societies, military and social history, ancient technology and the role of religion in society. Areas studied in particular detail include the Aegean Bronze Age, Roman Britain, and Hellenistic and Roman Egypt. You will be encouraged to take part in an archaeological excavation during the course and to participate in study tours to Greece and Italy.

The Junior Freshman year

In the Junior Freshman (first) year, two of your courses will be shared with students of classical civilisation, classics, Greek and Latin. In addition you will study sources and evidence in history and archaeology – a course specially designed to develop the critical and analytical skills required to assess ancient evidence.

- **Greek and Roman art and architecture** – an overview of the chief periods and styles in Greek and Roman architecture, sculpture, painting and pottery
- **Introduction to Greek and Roman history** – an introduction to the history of Greece and Rome, from the Greek Archaic age to the early Roman principate (c.850BC – AD68)
- **Sources and evidence in history and archaeology** – an introduction to the materials and methodologies employed by historians and archaeologists

The second and third years

Courses in the second and third years require more detailed study of specific subjects and time periods, with a focus on the Greek world and then the Roman world in alternating years.

In the Greek year you will study Greek archaeology, Greek history and a special course on the archaeology of the Aegean Bronze Age. The Greek Archaeology and History courses will concentrate on the three major periods: the Archaic 850-480 BC; the Classical 480-323 BC; and the Hellenistic 323-30 BC. Both courses will explore major themes such as colonisation, empire, the emergence of literacy, war and ideology, religion, and social issues such as sexuality and death. You also take a special course on the archaeology of the Aegean Bronze Age, which introduces you to the palatial civilisations of the Minoans and Mycenaeans.

In the Roman year you will study Roman history, Roman archaeology and a special course in the archaeology and history of Roman Britain. In Roman History you will study imperial history from Augustus to the emperor Constantine, examining aspects of the period, from the emperors themselves to the lowliest of slaves: matters of imperial politics and military strategy, economics and social concerns such as religion and rebellion will also be covered. The course also includes a special study of Roman Egypt. The Roman Archaeology course will allow you to explore the length and breadth of the Roman world through its material culture, examining the cities and their urban facilities, frontiers and the army, trade, transport and technology. Questions of imperialism, and colonialism and modern methodological issues will also be a concern. In the study of Roman Britain, you will assess the effect of Roman culture on Britain as a remote province of the Roman Empire and consider issues such as imperialism, acculturation and identity.

In both years these courses are taught through a combination of lecture and seminar classes; seminars are small group discussion sessions during which you will have the opportunity to discuss key themes of relevance to both the ancient and modern world and in the special subjects to handle artefacts (or replicas of them).

The Senior Sophister year

If you elect to study ancient history and archaeology in the final year you will choose two special subjects from a range that may include:

- Greek popular morality
- Ethnicity in the Greek and Roman world
- The city of Rome
- Jews in the Roman world
- Ancient Cyprus
- Entertainment and spectacle in the Greek and Roman world
- Goddesses of the ancient Mediterranean

Senior Sophisters (fourth year students) may also follow a course in Greek or Latin for beginners as an optional extra subject.

You will be required to research and write a thesis on a subject that is of relevance to the Classical world. This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills.

Assessment

A number of assessment tests throughout the academic year are combined with an end-of-year examination.

Study abroad

Trinity has strong international links with many Classics departments abroad, including active participation in the SOCRATES exchange programme with the University of Bordeaux (III) (France) and the University of Fribourg (Switzerland).

Careers

Recent graduates have worked in many fields including archaeology, art restoration, publication, teaching and heritage, and museum work. Each year some of our graduates also opt to pursue a research career beginning with postgraduate study in Ireland or abroad.

Further information

tcd.ie/Classics
Tel: + 353 1 896 1208

Religions and theology

COURSE CODES:	TR008	TR001 (TSM)
PLACES 2006:	21	24
POINTS 2005:	335	385

TR008 – Religions and theology is a single honor course where religions and theology is read almost exclusively for four years.

TR001 – Religions and theology (TSM) is a joint honors programme. Religions and theology is combined with one other subject. Both subjects are studied for three years and one subject only is studied in the fourth and final year. An honors degree is awarded in both subjects.

Single honor and TSM students follow the same principal subjects. The range of courses undertaken by TSM students, however, is less extensive.

For subjects that combine with Religions and theology see p.31.

See also:
Near Eastern and Jewish studies (p. 63)
Bachelor in Theology (p. 74)

Course overview

Trinity offers a stimulating environment for the academic study of religions – their histories, theologies, and ethics – in the ancient and modern worlds. It is not affiliated to any church or religious body and the course does not presume that you have any previous knowledge of the subject.

This course offers you the opportunity to reflect in a mature way on religion and its significance in the modern world by studying the ways in which Judaism, Christianity, and Islam have shaped European and Western civilisation.

In the first year you take a range of introductory courses on Judaism, Christianity and Islam. Each of these religions is studied in both its ancient and its modern setting. From the second year on, you choose from a range of courses depending on your individual interests. You may decide to take courses that are more historical in nature (examining such things as the origins of Judaism or Celtic Christianity), courses that study the foundation texts of religions (for example, the tradition of the Hebrew prophets or the writings of Paul of Tarsus), or courses that wrestle with more philosophical issues (such as the existence of God, the relation of science and religion, the ethics of genetic engineering, or Christian engagement with other world religions). In the second and third years you will also have the option to learn Hebrew or Greek. In your final year, you will be encouraged to do some in-depth research as you prepare a dissertation on a topic of your own choosing.

Is this the right course for you?

You will enjoy the course if you are interested in any of the following areas of study: ancient or modern history, literature, language, culture, philosophy, theology, ethics (in medicine, peace and war, reconciliation), politics, world religions.

'Students are clearly exposed to lively teaching, characterised by both breadth and depth, which engages the most recent developments and insights in each area.'

Extract from the external review of the School of Hebrew, Biblical and Theological Studies 2002

The Freshman years

In each of the Junior and Senior Freshman (first and second) years single honor students take five courses and TSM students take three. Each course involves two classroom hours per week.

Junior Freshman (first) year courses:

- **The ancient Near East from the Iron Age (around 1200BC) to the Greek period**, when Palestine was conquered by Alexander the Great in 333BC, and into the Roman period, which witnessed the emergence of the new Jewish movement centred on Jesus and the revolt of the Jews against Rome

  Topics include: archaeological discoveries, early Jewish writings, the Bible in its social and historical setting, temples and worship, gods and goddesses of Israel and its neighbouring cultures

- **From Jerusalem to Byzantium (first half of the year):** introduction to the historical Jesus and the development of early Christianity within the context of the eastern Mediterranean world under Roman rule

- **The formation of Christianity in Europe (second half of the year):** the first 700 years of Christianity in Europe

- **An introduction to the traditions of Christian thinking about God, the world, and human life**

  Topics include: the nature of religious experience, views of Jesus, the credibility of miracles, Christian pacifism and just war doctrine, and the challenges posed by multiculturalism, secularisation, gender issues, atheism, and globalisation

- **Introduction to Jewish civilisation from antiquity to modernity:** the practices and beliefs of Judaism in the ancient and modern world

- **Introduction to Judaism and Islam:** the historical origins of the two religions, the role of women in them, politics and Islam, Islamic religious traditions

In the Senior Freshman (second) year, students may choose courses on subjects such as:

- the early history of Israel
- Paul and the development of early Christianity
- Judaism from the time of Alexander the Great to the Roman period
- Medieval Judaism
- arguments for and against the existence of God
- the relation between modern science and religious belief
- medical ethics, including that of human cloning

Students in the second year may substitute a Broad Curriculum course (such as Film Studies) for a course in biblical and theological studies. See p. 27 or **tcd.ie/Broad_Curriculum**

The Sophister years

Students have a wide variety of subject choices in the Junior and Senior Sophister (third and fourth) years. These include:

- Prophecy in Israel
- The historical Jesus
- Literary and historical approaches to the Gospels
- The Reformation and the Enlightenment in Europe and Ireland
- Jewish identity in the modern world
- Christologies (ways of understanding Jesus)
- Christianity and world religions: the challenge of the claims of Buddhism, Hinduism and other world faiths to Christianity
- Ethics: philosophical and theological
- Justice, forgiveness, and atonement

Assessment

In addition to a number of essays throughout the year, there are end-of-year examinations in each course. In your final year you will also research and write a dissertation on a chosen topic.

Study abroad

A student exchange programme offers you the opportunity to spend up to a year either at the University of Leuven in Belgium or at the University of Glasgow in Scotland. Recently scholarships have been made available to enable students to spend a summer in Israel participating in archaeological digs.

Careers

Recent graduates have pursued career paths as diverse as business, law, journalism, media, teaching, theatre, archaeology and museum work. For further information please see the website below.

Further information

tcd.ie/Religions_Theology
Tel: + 353 1 896 1297

Classical civilisation

COURSE CODE: TR001 (TSM)

PLACES 2006: 29

POINTS 2005: 445

Classical civilisation cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth and final year. An honors degree is awarded in both subjects.

For subjects that combine with classical civilisation see p.31.

Is this the right course for you?

If you have a strong interest in the Greek and Roman worlds you will enjoy this course. You are not required to have a knowledge of Greek or Latin.

Course content

Classical civilisation provides a comprehensive approach to Greek and Roman civilisation. Lectures and tutorials cover Greek and Latin literature, Greek philosophy, Greek and Roman history and society, art and architecture, religion and mythology.

Topics studied include ancient drama, epic and lyric poetry, philosophy, and cultural issues such as the place of women and the role of literature in ancient society. All authors are studied in translation, but you will have an opportunity to take either Latin or Greek as an optional extra in the Junior Sophister (third) year, and as a special subject in your final year. All authors are placed within the social, religious and political context of their times.

The Junior Freshman year

In the Junior Freshman (first) year, two of your courses will be shared in common with students of ancient history and archaeology, classics, Greek and Latin. In addition you will study mythology and religion.

- **Greek and Roman art and architecture** – an overview of the chief periods and styles in Greek and Roman architecture, sculpture, painting and pottery
- **Introduction to Greek and Roman history** – an introduction to the history of Greece and Rome, from the Greek Archaic age to the early Roman principate (c.850BC – AD68)
- **Mythology and religion** – the chief Greek and Roman myths, as presented in Greek and Roman literature and art, followed by a study of the chief features of Greek and Roman religion

The second and third years

In each of the Senior Freshman (second) and Junior Sophister (third) years, you will study four courses which cover a wide range of classical literature. Courses currently on offer include:

- Homer
- Virgil's Aeneid
- Women in ancient Greece
- Plato and Socrates
- Literature and society in the early Roman empire
- Ciceronian Rome
- Herodotus and his world
- Greek drama

The Senior Sophister year

If you elect to study classical civilisation in the final year you will choose two special subjects from a range that may include: Greek popular morality; ethnicity in the Greek and Roman world; The city of Rome; Jews in the Roman world; Ancient Cyprus; entertainment and spectacle in the Greek and Roman world; Goddesses of the ancient Mediterranean.

In addition you will research and write a thesis on a subject that is of relevance to the Classical world. This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills.

Assessment

A number of assessment tests throughout the year are combined with an end-of-year examination.

Study abroad

Trinity has strong international links with many Classics departments abroad, including active participation in the SOCRATES exchange programme with the University of Bordeaux (III) (France) and the University of Fribourg (Switzerland).

Careers

Business, librarianship, museum work, publishing, teaching and theatre are some of the many fields recent graduates have entered. Recent graduates are working for companies as diverse as Smurfit Communications, Blackwell Publishing and the Gare St. Lazare Players. Students who opted to undertake further study have selected courses ranging from law and marketing to teacher training and international peace studies.

Further information

tcd.ie/Classics
Tel: + 353 1 896 1208

Classics

COURSE CODE:	**TR021**	
PLACES 2006:	**15**	
POINTS 2005:	**430**	
Special entry requirements		
Leaving Certificate	HC3	Greek or Latin
Advanced GCE (A level)	Grade C	Greek or Latin

See also TSM subjects:
Ancient history and archaeology (p. 32)
Classical civilisation (p. 35)
Greek (p. 53)
Latin (p. 65)

Course content

The main emphasis of the course is on classical literature and thought viewed within its cultural context. To aid in this and to encourage a comprehensive, interdisciplinary approach to classical culture, alongside study in Greek and Latin languages you will also study history, art history and archaeology.

The Junior Freshman year

In the Junior Freshman (first) year all students follow the same core courses in Greek and Roman history and in Greek and Roman art and architecture.

- **Greek and Roman art and architecture** - an introductory survey of the chief periods and styles in Greek and Roman architecture, sculpture, painting and pottery
- **Introduction to Greek and Roman history** – an introductory survey of the history of Greece and Rome, from the Greek Archaic age to the early Roman principate (c.850BC-AD68)

The language component of the course will be different for students who have previously studied either Greek or Latin than for students who are beginning the language from scratch.

Greek for beginners

- **Elementary Greek** – an introduction to the Greek language with emphasis both on comprehension and on grammar
- **Mythology and religion** – study of Greek and Roman myths, as presented in Greek and Roman literature and art, followed by a study of the chief features of Greek and Roman religion

Greek for non-beginners

- **Greek language** – the course offers revision and consolidation of basic grammar and syntax, leading on to more advanced work involving the reading and translation of a selection of texts in both prose and verse, unseen translation from Greek into English and translation from English into Greek in the form of a structured series of linguistic exercises
- **Greek texts** – this course deals with selected portions of Homer's Odyssey and Iliad and of Herodotus' Histories

Latin for beginners

- **Elementary Latin** – an introduction to the Latin language, with an emphasis on comprehension and grammatical knowledge
- **Mythology and religion** – study of Greek and Roman myths, as presented in Greek and Roman literature and art, followed by a study of the chief features of Greek and Roman religion

Latin for non-beginners

- **Latin texts** – this course covers the following authors: Catullus; Cicero, Pro Caelio; Virgil: selected books of the Aeneid
- **Latin language** – the course offers revision and consolidation of basic grammar and syntax, leading on to more advanced work involving the reading and translation of a selection of texts in both prose and verse, unseen translation from Latin into English and translation from English into Latin in the form of a structured series of linguistic exercises

The second and third years

In the Senior Freshman (second) and Junior Sophister (third) years you will continue with the study of Greek and Roman history and improve your fluency in reading and accuracy through Greek and Latin translation classes.

Translation classes offer the revision and consolidation of basic morphology (the form of words), grammar, syntax and vocabulary, leading on to more advanced work involving the reading and translation of a selection of texts in both prose and verse and unseen translation in the form of a structured series of linguistic exercises. Texts used for these classes offer advanced study of a wide range of core literary texts and help you towards the independent reading and appreciation of Greek and Latin literatures in their historical contexts. As well as the translation of selected texts by the chosen authors and detailed literary and historical analysis, the course includes the application of textual criticism and literary theory.

History is taught through a mixture of lectures and small-group seminars conducted in teams. Greek history concentrates on the three major periods: the Archaic 850-480 BC; the Classical 480-323 BC; and the Hellenistic 323-30 BC. Roman history concentrates on the first three centuries of the Christian era.

The Senior Sophister year

In the Senior Sophister (fourth) year you will take four special subjects and research and write a thesis on a subject that is of relevance to the Classical world. This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills. Recent final year courses have included Greek political philosophy, Plutarch, Didactic poetry, Alexandria and Rome.

Assessment

A number of assessment tests throughout the year are combined with an end-of-year examination.

Study abroad

Trinity has strong international links with many Classics departments abroad, including active participation in the SOCRATES exchange programme with the University of Bordeaux (III) (France) and the University of Fribourg (Switzerland).

Careers

Recent graduates have taken up careers in journalism, public relations, translation and teaching with employers such as the Sunday Independent, the European Commission and merchant banks. Of the graduates who opted for further study some are undertaking courses related to Classics while others are working towards postgraduate qualifications in business disciplines.

Further information

tcd.ie/Classics
Tel: + 353 1 896 1208

Clinical speech and language studies

COURSE CODE: **TR007**

PLACES 2006: **35**

POINTS 2005: **515**

Special entry requirements

Leaving Certificate	OD3/HD3	Mathematics
In addition:	HC3	In one of English, French, German, Irish, Italian, Russian or Spanish
	HC3	In one of mathematics, applied mathematics, physics, chemistry, biology, physics/ chemistry or agricultural science
GCSE	Grade C	Mathematics
In addition:		
Either		
GCSE	Grade B	In one of physics, chemistry, biology, mathematics
GCE A-level	Grade C	In one of English, French, German, Irish, Italian, Russian or Spanish
Or		
GCSE	Grade B	In one of English, French, German, Irish, Italian, Russian or Spanish
GCE A-level	Grade C	In one of physics, chemistry, biology or mathematics

Students must produce a negative Hepatitis B s Antigen (HBsAG) and Anti HB Core Antigen (Anti-HBc) test result before being permitted to register for this course. In the case of a positive result from the above, a Hepatitis B e-antigen (HBeAG) test with a negative result will be required before registration. **See p. 121.**

What is speech and language therapy?

Speech and language therapists primarily work with people with communication disorders, helping them to find ways to maximise their communication skills. They also assess, diagnose and treat swallowing disorders. Speech and language therapists may be one member of a multidisciplinary medical team comprising doctor, physiotherapist, nurse and social worker among others; they may work in community

settings such as schools and day care centres or may be situated within specialist clinics.

Communication impairments can occur at any stage in a person's life and they happen for a variety of reasons – due to developmental or congenital conditions in childhood, for instance, or due to an accident or neurological condition in adulthood. They can also result from certain types of cancer, such as cancer of the larynx. Speech and language therapists commonly work with people who have physical impairments, for example cerebral palsy; people who have learning difficulties, associated for example with Down Syndrome; with people who stutter; or those who have speech difficulties following a stroke.

Is this the right course for me?

As a speech and language therapist you will come into contact with people of all ages and will be required to work in a range of settings, including schools, community clinics and hospitals. In almost all instances, you will also find yourself dealing with parents and/or families. It is important, therefore, that you are adaptable and people-oriented. You will also need to be capable of working independently and as part of a team.

Course overview

This course gives you an in-depth understanding of communication disorders and teaches you how to work with those who have communication difficulties to manage these difficulties effectively. You will also gain experience in critical research techniques in areas relevant to your clinical practice.

The component courses in each year are grouped under two headings: theory and clinical practice.

Theoretical component

Major subject areas include anatomy, physiology, audiology, linguistics, neurology and psychology, with teaching methods based on a case-based problem-based learning (PBL) structure.

Teaching methods include lectures and tutorials, as well as group work in small teams to address problems set in the problem-based learning approach.

Clinical component

Clinical work is an integral part of the course, enabling you to apply your knowledge and to assist in the development of therapy programmes under supervision.

During term time an average of one day per week is reserved for student clinical work. You will also be required to undertake clinical practice outside term time: a two-week block in the Senior Freshman (second) year and a four-week block in the Junior Sophister (third) year. In the Senior Sophister year, a six-week block is organised within term time.

While you will generally attend clinics around Ireland, it may be possible, by special arrangement, to attend clinics in other countries.

PBL

Through PBL information is not presented in separate disciplines e.g. physics, chemistry, anatomy, physiology, biochemistry, which then require the student to integrate each of the separate strands at some later date. Problem-based or problem-centred learning provides students with structured problems set to meet specified learning objectives. Students organise themselves (under supervision) to undertake research to find out about how to achieve the learning objectives. Information gathered is shared and presented to the class. Tutor feedback is provided at every stage of the learning process.

The Freshman years – theoretical component:

In the Junior Freshman (first) year you will be introduced to the area of language acquisition and speech. These courses will be the foundation for later years of study.

- **Physiology** – the study of the functions of living organisms
- **Linguistics** – introduction to language study
- **Phonetics** – the study of vocal sounds
- **Paediatrics** – the branch of medicine dealing with children and their diseases
- **Speech and hearing**
- **Speech and language pathology foundation** – this course is designed to provide students with a general introduction to the wide range of communication disorders, and to the therapist's role in working with people and families affected
- **Developmental psychology** – introduces psychology with emphasis on the developing child and the psychological processes and factors affecting early development
- **Psychology**
- **Language acquisition** – this course provides knowledge about theories of the origins of language development in children, and about stages involved in early language development
- **Introduction to clinical practice** – speech and language therapy students are involved in observing clinical practice and learning about how to interact with parents, with younger and older clients with communication disorders, and with others involved in practice. Procedures and processes involved in clinical interaction are demonstrated through role-play

In the Senior Freshman (second) year theoretical courses move to more specific areas of study and you will study:

- **Disorders of speech language and communication** – and appropriate frameworks and tools for assessing skills in each of these areas, as well as considering the participation needs of individuals with communication difficulties
- **Clinical and instrumental phonetics**
- **Psychology**
- **General and neuro-anatomy**
- **Principles and methods of empirical research**

The Sophister years

In the Sophister (third and fourth) years the theoretical component of the course focuses more specifically on intervention approaches with reference to disorders of speech language and communication.

The clinical component takes on greater significance in the final two years of the course. Clinical placements involve both observation of sessions, and the student undertaking the role of therapist under supervision. By the end of the Senior Sophister (fourth) year you will be expected to participate fully in assessment and diagnosis, as well as in therapy planning and implementation. Such work is supervised, with students learning self-evaluation and reflective skills during the process.

Assessment

Your theoretical knowledge is assessed by a combination of continuous assessment and written end-of-year examinations. Certain subjects, for example phonetics, also require an oral examination.

Practical clinical examinations take place both in Trinity and in the clinics that you have been attending. Clinical placements are always examined on a continuous basis by supervisors who work with you. There are additional assessment procedures where students are observed in practice, and present their clinical work for examination with College mentors.

The Trinity degree and professional practice

On graduation, your qualification from the University of Dublin is recognised as a licence to practice as a Speech and Language Therapist in Ireland. Those holding the degree are eligible to apply for membership of the Irish Association of Speech and Language Therapists (IASLT) **www.iaslt.com**

Graduates who wish to work in the UK should contact the Health Professionals Council, **www.hpc-uk.org**

Graduates of the course who wish to work in another European country will have to apply for government approval in that country.

It should be noted that at present our undergraduate degree is not recognised in the USA, Canada or Australia for practice of Speech Language Pathology. If you are considering working as a Speech Language Pathologist in the US or Canada, you should contact the American Speech-Language-Hearing Association at: **www.asha.org/index.htm** or the Canadian Association of Speech-Language Pathologists and Audiologists at: **www.caslpa.ca/english**

Career opportunities

A shortage of speech and language therapists both in Ireland and in the UK makes it highly unlikely that you will have any difficulty getting work on graduation. For more detailed information on your career prospects, visit the professional associations' websites at **www.iaslt.com** and **www.rcslt.org**

Further information

tcd.ie/Clinical_Speech/
Tel: + 353 1 896 1588

A video presentation, which describes aspects of the course, is available to buy. This includes information on clinical speech and language studies, occupational therapy and physiotherapy.

Drama & theatre studies and drama studies

COURSE CODES:	**TR025**	**TR001 (TSM)**
PLACES 2006:	**12**	**20**
POINTS 2005:	**510**	**450**

These are restricted-entry courses.

Applications MUST be submitted by 1 February of the proposed year of entry. Applicants will receive a questionnaire in March to be completed and returned. On the basis of the completed questionnaire, some applicants will be called to attend a workshop and interview (during April and May), before final selections are made.

TR025 – Drama and theatre studies is a single honor course where drama and theatre studies is read almost exclusively for four years.

TR001 – Drama studies (TSM) is a joint honors programme. Drama studies is combined with one other subject. Both subjects are studied for three years and one subject only is studied in the fourth and final year. An honors degree is awarded in both subjects.

For subjects that combine with drama studies see pg 31.

Both drama studies and drama and theatre studies are four-year, non-vocational courses that combine historical, theoretical, and practical elements.

If you are interested in vocational training as an actor, you should apply for the Bachelor in Acting Studies, a three-year professional actor training programme offered in collaboration with the Abbey Theatre (see p.72).

Drama and theatre studies (single honor) – TR025

Students in this course devote their full time to the history, theory, and practice of theatre and performance studies. It is particularly appropriate for those who already have experience in theatre work, and it includes considerable work in practical theatre activities.

Single honor students will have approximately 14 hours per week of classes plus rehearsals.

Drama studies (TSM joint honors) – TR001

The TSM course explores theatre and drama mainly from a theoretical and historical perspective. It combines library-based courses with training in critical and analytical skills. While it follows a similar format to its single honor equivalent – drama and theatre studies (TR025) – the practical content is more limited.

TSM students will have approximately 7 hours per week of classes plus rehearsals.

Is this the right course for you?

The strong developmental nature of drama and theatre studies means that, in addition to a high level of analytical ability, you will need to possess resourcefulness, self-motivation and good time-management skills. By its nature, practical theatre work calls for full-time commitment to rehearsal and production at certain times of the year. You will also need to have the ability to work as a member of a team to succeed on this course.

Course overview

Both these courses aim to enable you to explore the relationship between the theory and the practice of theatre, to discover how and why theatre works. They do this by uniting elements of literary, cultural, historical and sociological studies with a practical understanding of the various performing arts.

The Freshman years

The Junior and Senior Freshman (first and second) years will provide you with the skills of the theatre historian, analyst and practitioner. During these years, the course provides an introduction to drama, theatre and performance. Teaching is by lecture, seminar and practical workshop and is arranged in a series of three-week intensive modules over each of the three terms. Courses cover defined historical periods, genres and movements, such as ancient Greek theatre, Shakespeare, melodrama, ritual and performance, gender and performance, modern/postmodern theatre. Single honor students, in addition, have weekly workshops in performing and theatre making.

In the Junior Freshman (first) year these courses are supplemented by classes in study and writing skills, multimedia technology, and technical theatre. Senior Freshmen (second year students) supplement their practical experience of theatre in staff-directed scene work and a production.

The Sophister years

In the Junior and Senior Sophister (third and fourth) years, the curriculum combines library-based courses in theatre and film history and training in critical and analytical skills with more practical workshop-based courses. These practical areas notably include playwriting, design, directing, drama and community, lighting, and theatre management.

The range of courses allows you to specialise in either historical and theoretical fields or in practical aspects of theatre. The range of options is vast and includes courses in the theatre history of Ireland, Europe, Asia, Africa, and the USA, costume, stage and lighting design, directing, theatre management, acting, film theory and history, and performance and technology. In your final year, in addition to course options, you will undertake an individual project guided by a member of staff and research and write a dissertation.

Assessment

Assessment is by a combination of essays, journals, practical assignments, class presentations, written and oral examination and, in your final year, a dissertation. In the Freshman (first two) years, practical work makes up approximately 33% of the total workload, depending on the time of year. In the Sophister (final two) years, students following the single honor Drama and Theatre Studies (TR025) course may opt to make up to 50% of your workload in practical courses.

Study abroad

You may apply to spend the Junior Sophister (third) year at a European university as part of the SOCRATES exchange programme. Drama has exchange agreements with the University of California, the University of Helsinki, the Université de Paris-Nanterre (Paris X), the Freie Universität Berlin, the National Kapodistrian University of Athens, the University of Glasgow, Goldsmith's College (University of London) and Royal Holloway College (University of London).

Did you know?

Since its establishment in 1592, Trinity College has educated some of the greatest dramatists in world theatre, from Congreve and Goldsmith to Synge and Beckett.

Drama at Trinity is housed in the purpose-built Samuel Beckett Centre, which opened in 1992. Within the Centre is the Samuel Beckett Theatre, a 208 seat black box performance space, the Players Theatre (the studio theatre of Trinity's student drama society), a dance studio/ rehearsal space, seminar rooms and offices.

Contemporary playwrights, directors, actors and designers often visit Trinity to discuss their work and give workshops or courses. In recent years, visitors have included Michael Bogdanov, Gabriel Byrne, Sue-Ellen Case, Max Stafford-Clark, Garry Hynes, Pamela Howard, Patrick Mason, Harold Pinter, Fiona Shaw, Jim Sheridan, Gunilla Palmstierna-Weiss, Yong Li Lan, and Phillip Zarrilli.

Career opportunities

Most graduates of both the single honor and the TSM course find employment in theatre or related professions. Many opt to take further training or apprenticeships in specialist areas of theatre, film, or television (such as directing, acting, design, writing, management, community drama and teaching). A number of recent graduates have formed their own theatre companies, have won awards, or have active careers in theatre, film, or television. Others have chosen research careers beginning with further study at postgraduate level.

Further information

tcd.ie/Drama
Tel: + 353 1 896 2266

English literature and English studies

COURSE CODES:	TR023	TR001 (TSM)
PLACES 2006:	34	81
POINTS 2005:	500	505
Special entry requirements		
Leaving Certificate	HC3	English
Advanced GCE (A level)	Grade C	English literature (A or B)
	or	English language (A or B)

TR023 – English studies is a single honor course where English is read almost exclusively for four years.

TR001 – English literature (TSM) is a joint honors programme. English literature is combined with one other subject. Both subjects are studied for three years and one subject only is studied in the fourth and final year.
An honors degree is awarded in both subjects.

For subjects that combine with English literature see pg 31.

English studies (Single honor) – TR023

The study of English is concerned with the history and practices of writing in English and encompasses literary works spanning English, Anglo-Irish, American and emerging post-colonial cultures. It aims to develop a thorough knowledge of the history of these literatures while also enabling you to develop a sophisticated critical consciousness and an awareness of critical and cultural theory.

Single honor English studies students take all nine of the courses listed below in the first two years.

English literature (TSM joint honors) – TR001

English literature covers a broad range of literatures written in the English language, from Chaucer to the present day. The aim of the course is to help you acquire a thorough knowledge of the history of differing literatures while also enabling you to develop a sophisticated critical consciousness and an awareness of critical and cultural theory.

While TSM students cover all the principal areas of literatures in English, the course is less extensive than that of the single honor programme. TSM English literature students take the first six courses listed below in the first two years.

Is this the right course for you?

If you want to study the whole range of developments in English and related literatures, from their earliest beginnings through to contemporary studies in the language you would enjoy either English literature or English studies.

Course content

Throughout your four years, the subjects you study will balance compulsory with optional courses, with the latter coming into play for the most part in the Sophister (third and fourth) years.

The course is taught through a mixture of lectures, seminars and tutorials. There is particular emphasis on small-group teaching, enabling you to benefit from close personal staff supervision. Independent study and research are encouraged, and quite a high proportion of your time will be taken up preparing work in the library and writing essays.

The Freshman years

Over the Junior and Senior Freshman (first two) years a range of courses provides you with an introduction to a variety of critical theories, practices and approaches to literature. You will primarily concentrate on selected prescribed texts, which include the following:

- **Literature and sexualities** – after an introduction to theories of sexuality, this course focuses on certain aspects of the topic arising in 19th and 20th century fiction.
- **The hero: from conqueror to tourist** – focusing specifically on the period 1660 to 1830, this course tackles issues including ideas of the heroic in poetry and drama, the innovations of prose fiction and the issue of gender.
- **Romanticism and revolutions** – a course concerned with a range of writing for the Romantic period, both in prose and poetry, and with the changing cultural contexts out of which it emerged.
- **Writing Ireland: nation, nationalism, identity** – this course begins with the concept of national culture and the debate about Irish identity in the 19th and early 20th centuries.

  It considers the issue of writing Ireland by examining the works of writers such as Yeats, Joyce and Kavanagh, as well as through examples of more recent Irish writing.
- **Romance** – an in-depth look at one of the most powerful and influential European genres from medieval times through to the Renaissance period.
- **Victorianism** – this course allows you to explore the social and cultural ethos of the period through a range of literary and non-literary texts. Texts from Emily Bronte, Tennyson, Arnold, Wilde and H. Rider Haggard are included.
- **Theatre: genre, period, theme** – this illustrates three different approaches to the study of drama. It begins with a consideration of the classical genres of tragedy and

comedy, continues with a concentration on the period of Renaissance drama, and concludes with a focus on home and homecoming as a central dramatic theme.

- **The essay** – the development of the essay as a literary/critical form via a range of essayists covering both classical and modern periods.
- **Fables and other narratives** – concerns itself with the traditions of non-realistic fiction in English, such as fable, allegory, parody and satire, Gothic narrative and fantasy. Texts from medieval, Renaissance and modern periods are all covered.

The Sophister years

In the Junior and Senior Sophister (third and fourth) years, you will choose most of your courses from a wide range of specialist options. By fourth year, courses are taught at an advanced level by seminar only.

Examples of Sophister courses may include:

- American autobiography
- Literature, technology and modernisation
- African and Caribbean literature
- Nationalism and minority discourse in Irish writing
- Myths and fairies
- Post-war British fiction
- 20th century women novelists
- Reading drama
- Modernism
- American short fiction

Assessment

Assessment is by a combination of submitted essays and end-of-year examinations. In the Freshman (first and second) years the weighting is 50% submitted work, 50% exams; in the Sophister (third and fourth) years it is closer to 25% submitted work, 75% exams.

Study abroad

Trinity has strong international links with many English departments abroad, including active participation in the SOCRATES exchange programme with universities in Austria, France, Italy, Spain, Switzerland and the UK.

Career opportunities

Recent graduates who progressed to further study opted either for related fields such as creative writing or Anglo-Irish Literature or for professional qualification in disciplines as diverse as law, accountancy, public relations and clinical speech. Graduates who chose to go straight into employment are working in journalism, marketing, retail and business management, publishing and teaching.

Further information

tcd.ie/English
Tel: + 353 1 896 1111

European studies

COURSE CODE: TR024

PLACES 2006: 33

POINTS 2005: 530

Special entry requirements

Leaving Certificate
HC in two languages other than English and Irish

HC1 If presenting French or German

HC2 If presenting Spanish

HC3 If presenting any other language

Or

HB3 In one language other than English or Irish

Advanced GCE (A level)
Grade C in two languages other than English or Irish

Or

Grade B in one language other than English or Irish

Students study two languages from French, German, Italian, Polish, Russian and Spanish.

Italian, Polish, Russian and Spanish are available from beginner level. No student may study more than one language as a beginner.

What is European studies?

At Trinity European Studies is a broad ranging, multidisciplinary programme which aims to discover Europe as a multicultural landscape and has a strong focus on history and cultural history. It studies the European past in order to understand the present, and examines contemporary Europe in all its complexity on a continent-wide basis.

Is this the right course for you?

If you are a good linguist and have an interest in history, politics and the workings of contemporary society you will enjoy this course. European studies is explicitly designed for students with a broad intellectual appetite.

Course overview

You will study two out of six European languages: French, German, Italian, Polish, Russian or Spanish (Italian, Polish, Spanish and Russian can be studied from beginner level). Both languages are studied equally in the first two years, after which one becomes your major, and the other your minor language. Language learning is embedded in the study of the society and culture of the countries in which the language is spoken and language courses are designed to meet the needs of students specialising in the social and political sciences. Literature is not studied until the final year.

As well as languages you will study the European past and present through three disciplines – history, history of ideas and social sciences (politics and sociology). The history of ideas teaches the evolution of European thought and culture from the Renaissance to the present and is the compulsory core course in the first, second and fourth years. The Junior Sophister (third year) of study is spent at a university abroad.

Course content

In first year all courses are compulsory. From the second year onwards the history of ideas, or cultural history, is compulsory and you will be able to choose other courses from the disciplines that interest you most, and so tailor the degree to your specific strengths and interests.

The Freshman years

Junior Freshman (first) year

Languages 1 & 2:

Grammar and structures of the languages, written and spoken expression and comprehension

History of Europe 1500-1700

Examines political, social and cultural developments across the whole of Europe, analysing both common features and differences in various countries.

Important topics:

- Reform of state and society
- Protestant and Catholic Reformations and their radicalisation
- The changing patterns of early modern risings, revolts and civil wars
- The consolidation of centralised monarchies
- Major thinkers
- The role of minorities
- 'Scapegoating' (heretics, witches, Jews)
- The communication of ideas and the theatricality of political power

Introduction to Social Science

The course offers students and introduction to the significant issues in the three main fields of social science: politics, economics and sociology.

Introduction to the history of ideas

Introduction to the evolution of European thought and culture in the 20th century, and to the techniques of analysing texts in their historical context.

This course examines the intellectual and cultural climate in Europe before and after the two World Wars. In particular you will examine how intellectual and cultural trends reacted or contributed to the threat of war and how they dealt with catastrophes in their aftermath.

Topics covered include:

- The Fin-de-Siècle mood around 1900
- The urban culture of the European metropolis
- The pre-war crisis of values (Nietzsche)
- Social Darwinism
- Socialist ideologies
- The upsurge of right-wing thought after the First World War
- The role of new media
- Culture and politics in the inter war years
- The idea of Europe after 1945

Senior Freshman (second) year

Languages 1 & 2:

Grammar and structures of the languages, written and spoken expression and comprehension

Culture and politics in Europe 1700-1870

Studies the emergence and development of modern society and culture since the Enlightenment. The core of the course concerns itself with political culture by analysing the political ideologies created from, and in opposition to, the French Revolution. You will be introduced to the central texts and figures who defined the meaning of modernity and to the social and cultural changes that carried forward the project of a modern society.

Select one of:

- **History of Continental Europe since 1870**
  Social, economic and political history are given equal emphasis in this course, which concentrates on Germany, France and Russia, as well as looking at Italy and Spain.
- **West European Politics**
  This course will familiarise you with the major theoretical, empirical and substantive issues in contemporary European politics. The course is thematic in approach and begins with an overview of the organising principles of democracy. It then examines the governmental institutions, electoral systems, party systems, policymaking practices and social cleavages of Europe. The course ends with a brief introduction to the institutions and politics of the European Union.
- **Russian and East European Politics**
  This course deals with processes of political change and transformation over six decades. The social and cultural background of politics in Russia and Eastern Europe and in particular the relationship between Central and Eastern Europe and Russia will be explored. The half-century of communist rule will be paid special attention, with a focus on key episodes that contributed to political change. The course will give important background to help students understand the experiences and difficulties by these countries as they contemplate membership of the European Union in the next few years.
- **European Societies**
  This course examines different forms of social inequality in Western Europe the divisions of class, region, gender, ethnicity and life cycle. It considers the extent to which the European Union involves a European social model of social cohesion – a particularly European way of countering the divisions of a market society. The course uses case studies from France, Germany, Italy, Sweden and the UK.

The Sophister years

The Junior Sophister (third) year is spent at a university abroad studying through the language you choose as your major language. A number of exchanges have been established with history and political science departments with universities in France (Paris, Strasbourg, Grenoble, Bordeaux), Germany (Hamburg, Tübingen, Freiburg), Italy (Pavia, Siena, Florence), Poland (Krakow), Russia (Moscow, Saratov) and Spain (Seville, Salamanca).

Students majoring in French:

Up to two students each year may be selected for the double diploma exchange programme with the Institut d'Etudes Politiques in Strasbourg. If selected you will study for two years in Strasbourg then return to complete the Senior Sophister (fourth) year in European Studies at Trinity. If successful, the two years of study at the IEP Strasbourg and the three years at Trinity lead to the award of both the Moderatorship in European Studies and the Diplôme de l'Institut d'Etudes Politiques.

In the Senior Sophister (fourth) year, although there is a course in your minor language, language work focuses predominantly on your major language. The core course in your final year is a history of ideas course: modernism and mass society – ideas and culture since 1890. Additionally, you will choose one or two options from a wide range of courses from history, political science, sociology, and a number of culture and literature options from the language departments. You can elect to research and write a dissertation in lieu of one of the options.

Career opportunities

Recent graduates are employed in international organisations both in Ireland and abroad, in the EU, in the civil service and the diplomatic corps, in business, finance and marketing. They are working as solicitors and consultants, as teachers here and abroad, as translators and interpreters, in journalism and tourism. Many students go on to do postgraduate courses, often with a more applied, specialised focus or specifically relating to Europe.

Further information

tcd.ie/European_Studies
Tel: + 353 1 896 1808

Film studies

COURSE CODE:	**TR001 (TSM)**
PLACES 2006:	**20**
POINTS 2005:	**460**

Film Studies cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year.

An honors degree is awarded in both subjects.

For subjects that combine with film studies see p. 31.

Overview

Film studies is a non-vocational course. While it will help to familiarise you with the practical issues involved in film production, including how to write a script and how to produce short videos, it is primarily academic.

Is this the right course for you?

The academic importance of film studies derives from the recognition that film and media are crucial components of how society is formed and informed. The emergence of sophisticated theoretical and historical studies of the subject has made high-level analysis possible. If you are interested in acquiring the critical tools to understand the medium of film in the context of economic, industrial and social policies in the era of globalisation, then this is a course you will enjoy.

Course content

Film studies covers the history and critical framework of film production and consumption from the 1890s to the present day. In the Freshman (first two) years, you will be introduced to film theory and criticism and to key aspects of American, European and world cinema. These courses will introduce you to the critical methodologies used in film analysis and to related work in historiography (the study of history writing) and cultural studies. A wide range of films will be screened each year.

The Freshman years

Courses during the Junior and Senior Freshman (first two) years may include:

- **Film theory and criticism 1 and 2**
  This course will begin by studying the evolution of film as a visual language with its own specific codes and conventions. In the second year students will build upon the issues raised by Film Theory and Criticism I and further strengthen their engagement with the subject by examining the various approaches to reading, understanding and evaluating films that have developed over the course of film history.

- **American cinema from the 1890s to 1960**
  The first part of this course introduces aspects of American cinema in the first half of the 20th century by considering classical narrative structures, important industrial developments and key generic texts. The second part of this course will introduce the student to influential examples of film criticism that American films from this period have generated. In this way, students will begin to experience the compelling relationship between history, context and a film's detail.

- **Introduction to European and world cinemas**
  This course will serve as an introduction to a variety of national cinemas from around the world. This course also examines the relationship between nations and the cinemas that they produce, or through which their national identities, societies and cultures are projected, this course then extends into the second year of the degree where students will be given the opportunity for a more detailed consideration of some of the issues raised.

- **European cinema – France**
  By putting French cinema into different cultural, historical and political context, this course will explore the development of that national cinema through a number of creative movements.

- **European cinema – Britain**
  British cinema has undergone extensive re-evaluation in recent years and this course aims to continue this process by encouraging fresh discussion of films taken from across the entire history of this national cinema.

- **Cinema and Ireland**
  This course reads the evolution of Irish national cinema production and the representation of Ireland on screen as a paradigm for the development of a minor cinema within an international framework.

- **Japanese cinema**
  This course will explore developments in Japanese cinema from 1945 onwards. This course will discuss contributions made by individual directors, developments in the film industry and the broader questions that these contributions and developments have generated.

- **Critical approaches to world cinema**
  Recent debates about national cinemas have become concerned with ideas of conflict and instability, and this course will aim to provide an understanding of these ideas by examining the history of a variety of national cinemas.

The Sophister years

In the final two years of the degree students can choose from the wide range of optional courses available to them in Film Studies and the School of Drama. In addition, students are introduced to the principles of script-writing and digital video production. This allows students to become familiar with the practical issues involved in film production, including writing a script and producing short videos. This demonstrates how ideas are converted from page to screen.

Did you know?

In 2003, Trinity became the first university in the Republic of Ireland to offer an undergraduate degree course in this subject.

Further information

tcd.ie/Drama
Tel: + 353 1 896 2266

French

COURSE CODE:	**TR001 (TSM)**	
PLACES 2006:	**84**	
POINTS 2005:	**390**	
Special entry requirements		
Leaving Certificate	HC1	French
Advanced GCE (A level)	Grade C	French

French cannot be studied as a single honor course. It must either be combined with one other subject within the two-subject moderatorship (TSM) programme, be selected as one of the two languages studied in the European studies programme or studied as the chosen language of either the computer science, linguistics and a language, the business studies and a language or the law and a language degree programmes.

TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with French see p. 31.

Within European studies both languages are studied equally for the first year after which one is studied as the major language and the other becomes the minor language.

See also:

TR011: Computer science, linguistics and French (p. 112)

TR018: Law and French (p. 87)

TR024: European studies – French with German/Italian/Polish/Russian or Spanish (p. 44)

TR085: Business studies and French (p. 80)

Is this the right course for you?

French literature, culture and civilisation have a long and distinguished history. If you are interested in the possibility of exploring this dynamic society and in finding out more about other cultures where French is spoken, in Europe and throughout the world, French at Trinity will appeal to you.

Course overview

French read in combination with another subject is designed to provide you with a thorough grounding in all aspects of French. The result is that you leave university with a high standard of fluency in the language, both written and spoken, and with a wide knowledge of major aspects of French literature, culture and society. The development of reading, analytical, and critical skills, in the form of both oral tasks and written exercises, also forms an integral part of this course.

Course content

Language instruction – including computer-based elements – forms the backbone of the teaching programme and students are expected to progress to a high level of competence in the four basic linguistic skills of listening, speaking, reading and writing. This includes nurturing an ability to cope with different registers and styles of written and spoken French and to reflect critically on the way the language is used and structured. History of the language or aspects of its contemporary form and use are examples of optional subject available over the course of the four years.

The Freshman years

The programme in the Junior Freshman (first) year includes an introduction to many aspects of contemporary France, general linguistics and literature. First year subject areas include:

- Introduction to language study
- French grammar and grammatical analysis
- Comprehension of the written and spoken language
- Contemporary short stories, novels, theatre, films and a specially prepared anthology of French poetry

You will spend approximately 5 hours each week working on language and grammar and approximately 2 hours each week studying literature.

In the Senior Freshman (second) year, you will build on this foundation by following courses in the history of French ideas and ideologies, French literature, and in the analysis of the French language itself.

The Sophister years

In the Junior and Senior Sophister (third and fourth) years a wide variety of optional subjects leading on from courses previously undertaken in the Freshman (first and second) years are available. These range from classical and contemporary French literature to politics, society and identity in France and other Francophone countries, and the literature of Quebec and French-speaking Canada. If you elect to study French in your final year you will research and write a dissertation in English or French on a subject of your choice in consultation with a supervisor.

Assessment

Written, oral and aural examinations, in addition to essays and continuous assessment of your coursework, all contribute to assessment. Senior Sophisters (fourth year students) will also be required to research and write a final year dissertation.

Study abroad

A minimum stay of two months in a French-speaking country is required over the duration of your course. Many students opt to spend their second or third year at a university in France within the framework of a SOCRATES exchange programme. There are exchange agreements between Trinity and universities in Bordeaux, Caen, Nice, and Paris.

Career opportunities

Recent graduates in French have gone on to work in areas as diverse as secondary and university teaching, arts administration, translation and interpreting, diplomacy, tourism, publishing, and investment banking. Increasing numbers of graduates go on to take further postgraduate courses in areas such as law, marketing and business. The combination of an arts degree and a more vocational or professional programme of studies has proved to be highly attractive to prospective employers.

Further information

tcd.ie/French
Tel: + 353 1 896 1553

Geography

COURSE CODE: **TR001 (TSM)**

PLACES 2006: **35**

POINTS 2005: **450**

Geography may be combined with one other subject from an arts or social science discipline within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Usually both subjects are studied for three years and one subject only is studied in the fourth year.

An honors degree is awarded in both subjects.

For subjects that combine with geography see p. 31.

Alternatively, geography can be studied through the general entry science programme – TR071. After two years of general science study students select one of 15 degree options, one of which is geography.

For special entry requirements to TR071 – science see p. 149.

Why study geography?

Geography is truly multidisciplinary as it spans a broad spectrum of the social, biological, informational and physical sciences. An important attribute of geographers, and one that is highly regarded in the workplace, is their ability to combine multidisciplinary knowledge with a wide range of transferable skills, including critical thinking, report-writing, numeracy and IT-literacy.

Course content

The Junior Freshman (first year) course Introduction to Geography aims to provide a flavour of the breadth of the subject, focusing on materials that are dealt with in greater depth in later years, while challenging students to integrate the different approaches and forms of knowledge that characterise the modern discipline of geography.

On completion of the course, you will be able to demonstrate an awareness of the development and scope of geography; begin to engage with contemporary, relevant theories and debates; and evaluate and utilise a range of academic, journalistic, observational and electronic information sources in the formulation and substantiation of your own ideas.

Subjects covered include:

- Atmospheric and oceanic sciences
- Climate change
- Environmental hazards and disasters
- Geomorphology
- Globalisation
- Nature and society
- Uneven development
- Urbanisation

Senior Freshman (second year) geography courses cover issues relating to cultural, economic and historical geography, and to natural and human-modified environmental processes and systems, and are supported by fieldwork and tutorials.

In addition, the Senior Freshman courses Geographical methods and Geographical methods – practicals provide an introduction to mapping, computer-based geographical information systems (GIS), statistics, surveying and satellite remote sensing.

The Sophister years

For details of courses in the Junior and Senior Sophister (third and fourth) years see page 158.

Did you know?

During the academic year 2004-5, Sophister year geography students were involved in academic staff led fieldwork in Iceland, Mallorca and Zambia, and in making digital video documentaries as part of their assessed work.

Assessment

A combination of continuous assessment and end-of-year examination is used.

Web-based assessments form an important part of the Junior Freshman (first year) course. These assessments have been designed to facilitate knowledge retention and to develop problem-solving skills among students. One of the assessments – the Long-term WebQuest – provides an exemplar of how geography can provide a framework through which multidisciplinary knowledge can be combined to generate greater understanding of, and more effective responses to, real world issues.

Study abroad

There are exchange agreements in place between Trinity and universities in France, Sweden, Switzerland and the UK.

Career opportunities

A wide range of career options is potentially available to geography graduates. The combination of a broad-based discipline and training in highly relevant transferable skills is valued in today's job market, where adaptability and flexibility are widely regarded as assets.

Further information

tcd.ie/Geography
Tel: + 353 1 896 1576

German

COURSE CODE:	**TR001 (TSM)**
PLACES 2006:	**32**
POINTS 2005:	**405**

Special entry requirements

Leaving Certificate	HC1 German
Advanced GCE (A level)	Grade C German

TSM is a joint honors programme. German is combined with one other subject. Usually both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with German see p. 31.

See also:

TR010: Computer science, linguistics and German (p. 112)

TR019: Law and German (p. 87)

TR024: European studies – German with French/Italian/Polish/Russian or Spanish (p. 44)

TR026: Germanic languages (p. 52)

TR086: Business studies and German (p. 80)

Why study German?

German is spoken by some 100 million Europeans. Contemporary Germany is the geographical and cultural link between east and west and the largest economy in an increasingly integrated Europe. Studying German at an in-depth level is, therefore, an excellent preparation for the world of work and is likely to make you highly employable.

Modern Germany is a society in transition, more and more ethnically diverse, and engaged in lively debate about its own past and about its political, social and economic responsibilities in Europe's and the world's common future. Germany's history has been rich, dynamic and troubled, and this history shapes the contemporary society and culture in countless ways. Reflection on and critical engagement with these experiences have been central to German writing and thought since the earliest times, and remain very much so today. All these factors make studying German exciting and challenging.

Is this the right course for you?

When studying German as one subject within a two-subject moderatorship you have the opportunity to acquire advanced competence and fluency in German language and to develop reading skills and methods of research, description and analysis in such areas as literature, history, culture and

society of the German-speaking countries and the linguistics of German. In the later years of the course, you will be encouraged to develop specialist interests by choosing from a wide range of optional subjects. You may also begin Dutch or Swedish.

The Freshman years

The Junior Freshman (first year) course has about 10 hours of lectures per week and covers three key areas:

- **Language programme:** this aims to build on the skills you acquired at school, concentrating particularly on the development of written skills. By the end of this year, you should be able to read articles from newspapers and magazines, to understand radio news broadcasts, to participate in conversations about your life and interests, and to write short but accurate narratives and pieces on contemporary issues.

  Your language learning is supported by a specially developed e-learning programme on the Departmental website.

- **Area studies:** this provides an introduction to society, political institutions and current affairs in Germany and German-speaking countries.

- **Literature and textual studies:** in this area you will read and analyse literary and non-literary texts in German and follow a course on key aspects of modern German literature.

In addition to your on-going language classes, the Senior Freshman (second) year will introduce you to German cultural history (exploring topics such as the development of the nation, the role of religion and religious difference, militarism and pacifism, and Nietzsche and Freud as key thinkers of modernity), to the social history of German literature, to Germanic linguistics and to medieval literature. This will also be your opportunity to begin developing your own special fields of interest within the programme: several of your Senior Freshman (second year) courses will be chosen by you from a range of optional seminars.

The Sophister years

In the Junior Sophister (third) year, you will choose from a number of seminars in specialist areas of literature, linguistics, cultural and historical studies. If you elect to study German in your final year the scope for developing these specialist interests is extended through advanced options that link undergraduate study to the research expertise of staff.

In the Senior Sophister (fourth) year, you will also complete a dissertation on a topic of your own choice. This can be drawn from literature, linguistics or some other aspect of the course which you have particularly enjoyed.

Assessment

At all levels, you will be assessed by a combination of project work and end-of-year written, oral and aural examinations. Senior Sophisters (fourth year students) also research and write a dissertation in the final year.

Study abroad

As a TSM German student, you must spend at least two months in a German speaking country, but in practice you are likely to spend longer, typically an academic year. Options include studying at a German university within a SOCRATES or similar exchange programme (our links include Cologne, Göttingen and Konstanz, but you can also make individual arrangements), or taking a year out in a work placement or as a language assistant in a school.

Career opportunities

People with languages degrees are found up to senior level in all kinds of rewarding careers. Employers value not only the language skills of German graduates, but their 'transferable skills': the mix of accuracy and creativity, confidence and sensitivity which marks the advanced linguist, and the maturity, flexibility and broadened understanding that comes from engaging with another culture and from the experience gained abroad. Recent graduates are working for employers such as Accenture, Deutsche Bank and Lufthansa or in industries such as telecoms, IT, education public service, the media, and universities in Ireland, Europe and North America.

Further information

tcd.ie/Germanic_Studies
Tel: + 353 1 896 1373

Germanic languages

COURSE CODE:	**TR026**	
PLACES 2006:	**8**	
POINTS 2005:	**405**	
Special entry requirements		
Leaving Certificate	HC1	German
Advanced GCE (A level)	Grade C	German

See also:

TR001: TSM (joint honors programme) German in combination with one other subject. For subjects that combine with German see pg 31.

TR010: Computer science, linguistics and German (p. 112)

TR019: Law and German (p.87)

TR024: European studies – German with French/Italian/Polish/Russian or Spanish (p. 44)

TR086: Business studies and German (p. 80)

Course overview

This course aims to equip you with a high degree of written and oral fluency in at least two, and normally three Germanic languages – German, Dutch and Swedish – and a familiarity with the society of the countries where these languages are spoken. It will also provide you with a thorough understanding of the historical development and inter-relationship of the Germanic languages and of the culture of Germany, the Low Countries and Scandinavia, from their common medieval roots to the present day.

Is this the right course for you?

Germanic languages offers you a very distinctive opportunity to acquire language skills in three major, and closely linked, European languages. These skills are closely integrated with the chance to engage with those aspects of the cultures where these languages are spoken that especially interest you, and to develop the intellectual and critical skills this engagement fosters. You will spend at least one year abroad, so there will be plenty of first-hand exposure to these societies and cultures.

The Freshman years

The Junior Freshman (first year) course has about 16 hours of lectures per week and covers four key areas:

- The German language programme aims to build on the skills you acquired at school, concentrating particularly on the development of written skills. By the end of this year, you should be able to read articles from newspapers and magazines, to understand radio news broadcasts, to participate in conversations about your life and interests, and to write short but accurate narratives and pieces on contemporary issues. Your language learning is supported by a specially developed e-learning programme.
- Dutch is learnt from beginner level, focusing on acquiring competence in the language in the context of an introduction to Dutch and Flemish culture.
- Area studies provides an introduction to society, political institutions and current affairs in Germany and German-speaking countries.
- In literature and textual studies you will read and analyse literary and non-literary texts in German and follow a course on key aspects of modern German literature.

In addition to your on-going language classes, the Senior Freshman (second) year will introduce you to German cultural history (exploring topics such as the development of the nation, the role of religion and religious difference, militarism and pacifism, and Nietzsche and Freud as key thinkers of modernity), to the social history of German literature, to Germanic linguistics and to medieval literature.

This will also be your opportunity to begin developing your own special fields of interest within the programme as a wide range of optional seminars in literature, linguistics and other topics are available. You also have the option to begin Swedish language and Scandinavian area studies.

The Sophister years

As you will spend the Junior Sophister (third) year abroad studying at universities in Germany, Belgium and the Netherlands, you may decide to spend a summer vacation getting to know one or all of these countries in advance. Either way, you can look forward to a year of diversity and stimulation.

In the Senior Sophister (fourth) year, you will write a dissertation on a topic of your own choice which may build on this year abroad or, alternatively, may consider another linguistic or literary aspect of the course.

Assessment

A combination of project work and end-of-year examinations make up the assessment procedure. Senior Sophisters (fourth year students) are required to research and write a final year dissertation.

Career opportunities

People with languages degrees are found up to senior level in all kinds of rewarding careers. Employers value not only the language skills of German graduates, but their 'transferable skills': the mix of accuracy and creativity, confidence and sensitivity which marks the advanced linguist, and the maturity, flexibility and broadened understanding that comes from engaging with another culture and from the experience

gained abroad. The Germanic Languages degree, with its combination of German with either one or two further, less commonly studied languages, Dutch and Swedish, gives its graduates highly distinctive skills. Recent graduates are working for employers such as Accenture, Deutsche Bank and Lufthansa or in industries such as telecoms, IT, education and public service.

Did you know?

Germanic Languages is so called because it incorporates the study of Dutch and Swedish in addition to German.

Further information

tcd.ie/Germanic_Studies
Tel: + 353 1 896 1373

Greek

COURSE CODE:	**TR001 (TSM)**	
PLACES 2006:	**10**	
POINTS 2005:	**445**	
Special entry requirements		
Leaving Certificate	HC3	In Greek or in a language other than English
Advanced GCE (A level)	Grade C	In Greek or in a language other than English

Greek cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects. When studied as one subject of a two-subject moderatorship you can study Greek ab initio (from beginner level).

For subjects that combine with Greek see p. 31.

Greek may only be combined with Latin in the single honor Classics degree – TR021 (see p. 36).

Is this the right course for you?

As a student of Greek you will not be merely a student of language, but also of art and literature, of history, politics, philosophy and religion. The core curriculum provides a solid grounding in many of the major disciplines of the humanities.

Course content

Throughout the programme a wide variety of texts is studied, including epic, drama, lyric poetry, philosophy and historiography (the study of history writing). The first year courses will depend on whether you are learning Greek as a beginner or have already studied the language. The main emphasis of both beginners and non-beginners courses is on classical literature and thought as seen within its cultural context. The study of history, art history and archaeology encourages a comprehensive, interdisciplinary approach to classical culture.

The Junior Freshman year

In the Junior Freshman (first) year, two of your courses will be shared with students of ancient history and archaeology, classical civilisation, classics, and Latin.

- **Greek and Roman art and architecture** – an introductory survey of the chief periods and styles in Greek and Roman architecture, sculpture, painting and pottery
- **Introduction to Greek and Roman history** – an introductory survey of the history of Greece and Rome, from the Greek Archaic age to the early Roman principate (c.850BC-AD68)

The language component of the course will be different for students who have previously studied Greek than for students who are beginning the language from scratch.

Greek for beginners

- **Elementary Greek** – an introduction to the Greek language with emphasis both on comprehension and on grammar
- **Mythology and religion** – study of Greek and Roman myths, as presented in Greek and Roman literature and art, followed by a study of the chief features of Greek and Roman religion

Greek for non-beginners

- **Greek language** – the course offers revision and consolidation of basic grammar and syntax, leading on to more advanced work involving the reading and translation of a selection of texts in both prose and verse, unseen translation from Greek into English and translation from English into Greek in the form of a structured series of linguistic exercises
- **Greek texts** – this course deals with selected portions of Homer's *Odyssey* and *Iliad* and of Herodotus' *Histories*

The second and third years

In the Senior Freshman (second) and Junior Sophister (third) years you will continue with the study of Greek history, and improve your fluency in reading and accuracy through Greek and Latin translation classes.

The translation course offers the revision and consolidation of basic morphology, grammar, syntax and vocabulary, leading on to more advanced work involving the reading and translation of a selection of texts in both prose and verse, unseen translation from Greek into English and translation from English into Greek through a series of linguistic exercises. In addition you will study major literary works by authors such as Homer, Herodotus and Plato.

The Senior Sophister year

If you elect to study Greek in your final year you will take two special subjects and research and write a thesis on a subject that is of relevance to the Classical world. This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills. Recent final year courses have included Greek political philosophy, the House of Atreus and Plutarch.

Assessment

Continuous assessment is combined with end-of-year examinations and, in your final year, a dissertation.

Career opportunities

Recent graduates have worked in many fields including art restoration, banking and accountancy, business, civil service, computers, journalism and broadcasting, law, librarianship, publishing, teaching and theatre.

Further information

tcd.ie/Classics
Tel: + 353 1 896 1208

History

COURSE CODES:	TR003	TR001 (TSM)
PLACES 2006:	38	40
POINTS 2005:	460	510

TR003 – History is a single honor course where history is read almost exclusively for four years.

TR001 – History (TSM) is a joint honors programme. History is combined with one other subject. Usually, both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

All history students follow the same courses. However, while TSM and history and political science students cover all the principal areas of history, the workload is less intense than that of the single honor programme – TR003.

For subjects that combine with history see p. 31.

See also:

TR012 – History and political science (p. 56)

Is this the right course for you?

History courses at Trinity are designed to allow you to shape the overall character of your studies and permit you to specialise in a number of different ways. It is a particularly suitable area of study if you want a broad-based course that allows you to touch on a wide variety of areas before specialising.

Course content

The history programme is designed to ensure that you acquire a systematic knowledge of European and Irish history, and also to introduce you to particular aspects of history along socio-political, cultural and economic lines.

The Freshman years

The Junior Freshman (first) year:

Single honor (TR003) students take all four courses.

Students in the TSM (joint honor) programme take History of Europe 1000-1250 as their core course and choose one additional course from the remaining three.

- **History of Europe 1000-1250**
  Covers European history in the central middle ages and deals particularly with the internal history of France, Germany, Italy and Byzantium. The emphasis is on political and institutional developments, ecclesiastical history, history of political thought, intellectual history and the development of schools, the religious orders and religious dissent. The history of the papacy is also considered in great detail.
- **History of Britain 1000-1485**
  Covers most of the major historical developments in Britain from the end of the Anglo-Saxon kingdom until the accession of the Tudors in 1485. While the emphasis is on a chronological analysis of political events within the period, many important socio-economic questions are also covered.
- **History of Ireland 1014-1534**
  Topics and trends rather than a narrative of events are emphasised on this course. Particular attention is given to the development of Gaelic Ireland, patterns of settlement, the economy, the church and religion, politics and the constitution, Anglo-Irish relations, war and civil disturbance, and government and society.
- **History of Europe 1500-1700**
  Highlights political, social and cultural developments across the whole of Europe by selecting specific common features and studying variants of these in certain countries. Reform of state and society, the first and second reformations (Protestant and Catholic), the changing patterns of early modern risings, and revolts and civil wars play a leading role in the subjects covered.

As a Senior Freshman (second year student) you will be introduced to courses in modern Irish, British, European and American history.

All single honor students take the course History of continental Europe since 1870, either one of History of Continental Europe since 1870 or History of Ireland 1800 to the present and select two of:

- Ireland, Britain and Western Europe, 400-1000
- History of Europe, 1250-1500
- History of Britain since 1603
- History of the USA since 1607
- Culture and politics in Europe 1700-1870
- History of political thought
- The economy of Ireland
- Introduction to sociology
- Any Broad Curriculum course (see p. 27 or **tcd.ie/Broad_Curriculum**)

TSM students take one of History of Continental Europe since 1870 or History of Ireland 1800 to the present and select one of the first six courses above.

The Sophister years

Three subject areas are studied in detail in the Junior Sophister (third) year. One of these combines a short lecture course on historiography (the study of history writing) with a selected option from a range of courses on historiographical topics from various periods and areas. In the Senior Sophister (fourth) year students select two taught courses and prepare a dissertation.

Optional subjects available in the Sophister years (three and four) include:

- The archaeology of medieval castles
- The age of Dante and Petrarch
- Empire and Papacy in the eleventh century
- The Reformation in Europe, 1500-1535
- History and heritage
- Revolution and civil war in Ireland, 1919-1923
- The Weimar Republic
- World War II, France and its historians
- The United States from Truman to Kennedy
- The politics of national salvation in Ireland, 1957-1969
- Contemporary political theories
- Sub-Saharan Africa since 1875

Assessment

This is primarily essay and exam-based, although a final year dissertation is also required.

Study abroad

The history department has SOCRATES exchange agreements with universities in France, Germany, Italy and the United Kingdom as well as exchange programmes with American universities.

Career opportunities

Recent graduates have taken up careers as librarians, PR consultants and teachers as well as employment in the financial services and voluntary sectors. Graduates who opted for further study are pursuing courses in law and business as well as international relations and journalism.

Did you know?

Trinity teaches political, military, social, economic, cultural and intellectual history and specialises in the histories of a number of countries – Ireland, Britain, America, France, Germany and offers some African and Indian courses as well. Areas of study range in chronological breadth from the Middle Ages to the contemporary period.

Further information

tcd.ie/Medieval_History/- first year courses
Tel: + 353 1 896 1791

tcd.ie/Modern_History – second, third and fourth year courses
Tel: + 353 1 896 1020

History and political science

COURSE CODE: TR012

PLACES 2006: 14

POINTS 2005: 545

You can also study history through one of the following programmes:

TR001: TSM (joint honors programme) history in combination with one other subject. For subjects that combine with history see p. 31.

TR003: Single honor course in history (p. 55).

Political science can also be studied through the general faculty entry BESS (TR081) programme. After a common first year students select 6 subjects in second year. At the end of the second year you may opt to take a single honor degree in political science or to combine political science with one of business studies, economics or sociology. For details see p. 79.

Course overview

History and political science have a close affinity and the combination of the two in a joint honors programme provides a coherent framework for the development of interdisciplinary interests. In the first three years of the programme, you will take both subjects. In the fourth year, you may choose to concentrate exclusively on either subject or to continue with both.

Assessment

A combination of essays, assignments and end-of-year examinations make up the assessment process.

Career opportunities

Recent graduates are pursuing careers in government and the public sector, media, accountancy and business to name a few. Some graduates each year progress to further study in areas as diverse as medicine, film production, graphic design and business as well as areas more closely related to history and political science.

Further information

tcd.ie/Political_Science
Tel: + 353 1 896 1651

tcd.ie/Modern_History and tcd.ie/Medieval History
Tel: + 353 1 896 1020

History Courses Courses are designed to allow your individual preferences to shape the overall character of your studies, and permit you to specialise in a number of different ways.	**Political Science Courses** The work of the first two years is designed to provide you with a systematic foundation in the subject
In each of the first two years students take 5 courses – either 3 history courses and 2 political science courses OR 2 history courses and 3 political science courses	
Junior Freshmen (first year students) select from: ■ History of Europe 1000-1250 ■ History of Britain 1000-1485 ■ History of Ireland 1014-1534 ■ History of Europe 1500-1700	Junior Freshmen (first year students) select from: ■ Introduction to political science ■ Introduction to sociology ■ Introduction to economic policy
Senior Freshmen (second year students) select from: ■ Ireland, Britain and Western Europe, 400-1000 ■ History of Europe, 1250-1500 ■ History of Ireland, 1500-1800 ■ History of Britain since 1603 ■ History of the USA since 1607 ■ Culture and politics in Europe, 1700-1870 ■ History of continental Europe since 1870 ■ History of Ireland, 1800 to the present	Senior Freshmen (second year students) select from: ■ History of political thought ■ Russian and East European politics ■ West European politics (see p. 27 or **tcd.ie/Broad_Curriculum**)
In the final two years you will take a short lecture course on historiography and choose special subjects, which are studied in great detail and with particular attention to original sources. Subjects available in the Sophister years (three and four) include: ■ The archaeology of medieval castles ■ The age of Dante and Petrarch ■ Empire and Papacy in the eleventh century ■ The Reformation in Europe, 1500-1535 ■ History and heritage ■ Revolution and civil war in Ireland, 1919-1923 ■ The Weimar Germany ■ World War II, France and its historians ■ The United States from Truman to Kennedy ■ The politics of national salvation in Ireland, 1957-1969 ■ Contemporary political theories ■ Sub-Saharan Africa since 1875	In the Sophister (third and fourth) years, you may choose to concentrate on particular aspects of the subject, including: Research Methods for Political Scientists ■ Irish politics ■ Transition Politics ■ International Political Theory ■ Comparative Political Institutions ■ European Public Policy ■ Contemporary political theories ■ Political Parties ■ Contemporary Political Issues ■ The Nation and Post-Colonialism ■ The Transformation of War in the Post-Cold War Era ■ Democracy and Dictatorship: Comparative politics of developing countries

History of art and architecture

COURSE CODE:	**TR001 (TSM)**
PLACES 2006:	**28**
POINTS 2005:	**490**

History of art and architecture cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with history of art and architecture see p. 31.

Is this the right course for you?

History of art and architecture appeals to a wide range of students, as well as those with special interests in art, archaeology and history. It will provide you with an effective way of developing intellectual rigour and of acquiring the critical and communication skills traditionally associated with an arts degree. You do not need any previous knowledge of art history or any practical skill in art to do this course.

Course content

This course teaches you how to analyse works of art and how to understand their historical significance. It will enable you to develop an awareness of the environment while also providing you with a deeper sensitivity to the culture and ideals of other nations.

You will take a broad range of courses covering the history of painting, sculpture and architecture from ancient Greece to modern times. Topics available include early Irish art, the painters of the Italian Renaissance, the great Gothic cathedrals of Europe, the architectural splendours of the Georgian era and the artistic achievements of the twentieth century. There are also courses on non-Western art such as Japanese painting.

Trinity offers excellent facilities for the study of history of art and architecture and its own distinguished buildings and collections are integral to the course. The National Gallery and National Museum are located nearby and provide the venue for group and teaching activities. Other institutions such as the Museum of Modern Art and the Chester Beatty Library are also used. As a student, you will be expected to become familiar with various collections and buildings in Dublin.

The Junior Freshman year

In the Junior Freshman (first) year you will take two courses:

- **An introduction to European painting**
  As well as providing a historical survey, covering major periods such as the Italian Renaissance and French Impressionism, this course will introduce you to the methods and techniques of art history. These include the critical analysis of paintings, the importance of iconography, and the different technical methods used by artists from the Book of Kells to the present day.

- **An introduction to European architecture**
  This course provides you with the knowledge and skills needed to understand and appreciate architecture. It includes an examination of different building materials and architectural drawings as well as training in the visual analysis of buildings. These topics are part of a historical survey of Western architecture, which ranges from Greek temples to the present day. Special attention is given to important building types such as the medieval monastery or the country house.

Years two, three and four

Over the course of the Senior Freshman, Junior and Senior Sophister years, you will have the opportunity to take courses in the following areas:

- Romanesque art and architecture
- The Gothic cathedral in France
- Painting and sculpture in 17th century Europe
- Painting and sculpture in Renaissance Italy
- Renaissance and baroque architecture in Italy
- Architecture in the 19th and 20th centuries
- Eighteenth century painting in Britain and Ireland
- Art in France 1850-1900
- Dutch and Flemish painting
- Modernism and post-modernism
- The arts of Japan
- Approaches to art history and criticism

The special subject

If you elect to study history of art and architecture in the Senior Sophister (fourth) year, you will select a subject dealing with art historical issues at a more specialised level. Where possible, you will be given the opportunity of studying primary sources and particular emphasis is placed on personal observation of original works of art, whether painting, sculpture or architecture. Examples of special subject topics include Irish art in the golden age c.650-950, topics in post-medieval architecture, classicism, Spanish painting

from the Escorial epoch to Goya, and realism in Britain and France 1840-1900.

Study abroad

Senior students have the chance to participate in a study week abroad, which takes place in Paris, Rome or Florence. In addition, you may apply to study at a university in France, Germany, Italy or Spain during the Senior Freshman (second) year as part of the SOCRATES programme. As you will be required to attend lectures in the language of your host institution you must possess the necessary linguistic fluency.

Assessment

Assessment is by coursework, end of year examinations, and a final year dissertation.

Did you know?

The Douglas Hyde Gallery, one of Ireland's leading contemporary art galleries, is situated in Trinity College and the College itself holds major collections of painting and sculpture.

Career opportunities

In recent years graduates have been employed in universities, galleries, museums, publishing houses, art salesrooms, architectural heritage and journalism in Ireland and abroad, as well as in a broad range of administrative, commercial and media-based employment outside the field of art and architectural history.

Further information

tcd.ie/History_of_Art
Tel: + 353 1 896 1995
www.douglashydegallery.com

Irish (early Irish and modern Irish)

COURSE CODES:	TR022	TR001 (TSM-EI)	TR001 (TSM-MI)
PLACES 2006:	15	10	30
POINTS 2005:	315	-	335
Special entry requirements			
Leaving Certificate		HC3	Irish
Advanced GCE (A level)		Grade C	Irish

Students may study:

EITHER Early and Modern Irish (TR022)

OR Early Irish (EI) in combination with one other subject (TR001)

OR Modern Irish (MI) in combination with one other subject (TR001)

TR022 – Early and Modern Irish is a single honor course.

TR001 – Two-subject moderatorship (TSM) is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects. For subjects that combine with early Irish and with modern Irish see p. 31.

Early Irish component

Early Irish can be studied either in combination with one other subject as part of a two-subject moderatorship (TSM) programme or in the single honor Early and Modern Irish programme. When studied in combination, both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

Is this the right course for you?

This course is aimed at those who wish to study the language, literature and culture of Ireland from the earliest period to the 12th century.

Course content

Early Irish considers all aspects of this subject up to the 12th century. While the course itself is taught through the medium of English, you will have the opportunity to learn the old Irish language (8th-9th centuries) ab initio (from beginner level).

Study of the language will reach back as far as the primitive Irish of Ogham inscriptions and extend forward to the middle Irish period (10th-12th centuries). It will also examine the Celtic and Indo-European relationships of the Irish language. Old and Middle Irish prose and verse texts will be read and discussed and lectures will be given on palaeography (the study of manuscripts) and on aspects of early Irish political and social history.

The Freshman years

In the Junior Freshman (first) year you will be introduced to the grammar of old Irish and to early prose and verse texts. One series of lectures discusses early Irish society in general while another series examines early Irish saga literatures.

You will also be introduced to the history of the language through the following courses:

- Introduction to old Irish
- Introduction to early Irish literature
- Old Irish prose and poetry
- Early Irish saga

Senior Freshman (second) year courses:

- Early Irish saga
- Introduction to early Irish law
- Old Irish glosses and verse
- Old Irish prose
- History of the Irish language – Middle Irish

The Sophister years

Courses in the third and fourth years include:

- History of the language – Ogham and primitive Irish
- History of the language – comparative phonology and morphology
- Early Irish legal texts
- Early Irish poets and poetry
- Ecclesiastical verse
- Ecclesiastical prose

In addition, and subject to staff availability, an introduction to modern Welsh and readings in Welsh texts may be available in third and fourth years respectively.

Assessment

Assessment is by exercises and essays submitted during the year, as well as end-of-year examinations. In the final year you must also research and write a dissertation.

Did you know?

Trinity College is home to the Book of Kells written around the year 800AD.

Career opportunities

Some students of early Irish carry on with postgraduate study in related areas such as history, interpreting and translation while others proceed to teacher training courses, or to work in the media, business, marketing or public service.

Modern Irish component

Modern Irish can be studied either in combination with one other subject as part of a two-subject moderatorship (TSM) programme or in the single honor Early and Modern Irish programme TR022. When studied in combination with another subject, both are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

As a student of modern Irish, you will study Irish and Scottish Gaelic language, literature and culture from the end of the 12th century to modern times. A wide range of texts and authors will be examined and you will be introduced to the elements of linguistic and literary analysis. The course provides an introduction to the critical study of 20th century prose and poetry and to the study of classical modern Irish literature. The social history of the modern Irish language is also analysed.

The course, for the most part, is conducted through Irish. There are classes in the written language during each of the four years of the programme and language laboratory sessions are provided for students in the first two years. In addition, tutorials aim to improve your command of the language, both spoken and written.

Is this the right course for you?

You must possess or acquire a good command of both spoken and written Irish, and be interested in Irish society in general to succeed on this course. You will be required to spend at least two months in the Gaeltacht, and Trinity provides some financial assistance in the form of grants to students most likely to benefit from such visits.

Course content

In the Junior Freshman (first) year courses cover the social history of modern Irish and you will be introduced to classical early modern Irish. This is to give you a sound basis for the work of subsequent years. You will also cover a range of 20th century prose and poetry.

In the following years, the study of language history and linguistics becomes more detailed and the range of modern literature studied becomes wider. You will be introduced to the study of folk literature and palaeography (the study of manuscripts), learn Scottish Gaelic and read some of its literature, and study topics from Irish literature of the 18th and earlier centuries within their particular historical context.

The Freshman years

Junior Freshman (first) year courses include:

- Modern literary texts
- Modern Irish language and history
- Classical Irish prose and verse
- Composition
- Language laboratory
- Introductory course on language study

Examples of subjects you will study in the Senior Freshman (second) year include modern poetry, oral literature, readings in classical Irish verse, Scottish Gaelic language and composition.

The Sophister years

As well as a set of core courses, which are obligatory, there is a range of optional modules in the third and fourth years allowing you a choice of topics to study.

Assessment

Assessment is by exercises and essays submitted during the year as well as an end-of-year examination in each subject. Final year students must also research and write a dissertation.

Career opportunities

Some students of Modern Irish carry on with postgraduate study in related areas such as history, interpreting and translation while others proceed to teacher training courses, or to work in the media, business, marketing or public service.

Further information

tcd.ie/Irish
Tel: + 353 1 896 1450

Core subjects	**Optional Courses**
Junior Sophister (third) year: ■ Composition ■ Linguistics and dialect study ■ Connacht dialect ■ Munster dialect ■ Ulster dialect ■ Scottish Gaelic language	In each of the third and fourth years you will select four optional courses from: ■ Early modern prose ■ Seventeenth-century post-classical poetry ■ Seventeenth-century prose ■ Ossianic and romantic prose ■ Ossianic poetry ■ Classical poetry ■ Language variation ■ Eighteenth-century verse ■ Eighteenth-century prose ■ Scottish Gaelic literature ■ Twentieth-century prose (either novel or short story OR autobiography or drama)
Senior Sophister (fourth) year: ■ Irish palaeography ■ Composition	
Final year students also research and write a dissertation under the supervision of a member of staff.	

Italian

COURSE CODE:	**TR001 (TSM)**	
PLACES 2006:	**30**	
POINTS 2005:	**390**	
Special entry requirements		
Leaving Certificate	HC3	In Italian or in a language other than English
Advanced GCE (A level)	Grade C	In Italian or in a language other than English

Italian cannot be studied as a single honor course. It must either be combined with one other subject within the two-subject moderatorship (TSM) programme or be selected as one of the two languages studied in the European studies programme.

TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with Italian see p. 31.

Italian can be studied ab initio (from beginner level) within both TSM and European studies.

See also:

TR024: European studies – Italian with French/German/Polish/Russian or Spanish (p. 44)

Course Overview

Italy has played a leading role in European civilisation, and today is one of the major economies of the world, famous for its style, design and innovation in many fields. There is widespread interest in Italy, its people and culture and the courses at Trinity offer an opportunity to develop this interest in a systematic way. They are also designed to help you meet the challenge of becoming proficient in a new language, as you can study Italian here as a complete beginner. There is close contact between students of Italian and staff; you will receive individual attention and will be encouraged to discuss your progress at all times.

Is this the right course for you?

Italian is an excellent subject choice if you have a natural flair for languages, if you enjoy travelling to foreign countries and exploring their cultures, or if you want to follow a career in the multilingual Europe of today.

The Freshman years

In the Junior Freshman (first) year you will follow an intensive beginners course in grammar, translation, conversation, and video work.

There are about eight classroom hours per week, most of the time being devoted to language learning in your first year. Each week includes grammar, conversation class and other activities, and assignments to be done independently. You will be introduced to modern Italian poetry, drama and fiction in your second and third terms through weekly lectures.

In the Senior Freshman (second) year you continue with language courses and the study of core literary texts. In addition you will follow two optional subjects in areas of particular interest, which may include Italian history and society, avant garde writers in the 20th century and the works on fascism by Carlo Levi and Ignazio Silone.

The Sophister years

The Junior and Senior Sophister (third and fourth) years focus on major authors of the medieval, Renaissance and later centuries. Optional courses are available in modern Italian literature, history and society, and in linguistic topics such as the theory and practice of translation. There is a continuing emphasis on strengthening your language proficiency and developing higher-level skills in translation, text editing and writing.

In your final year the programme includes courses on Italian language varieties, the works of Dante, the history of language and a wide selection of optional topics for study in depth. You will also be required to research and write a dissertation.

Assessment

A combination of written, oral and aural examinations, in addition to essays and continuous assessment of your coursework, is used. Senior Sophisters (fourth year students) will, in addition, research and write a final year dissertation.

Study abroad

A minimum two-month stay in Italy will be required of you at some time over the duration of your course. You may apply to spend the second year at a European university through the SOCRATES programme. There are links with the University of Bologna, the University of Trieste and the University of Pavia.

Students who do not opt to participate in an exchange programme may substitute one subject in Italian with a course offered through the Broad Curriculum initiative in either the second or third year (see p. 27 or tcd.ie/Broad_Curriculum).

Career opportunities

Recent graduates who have progressed directly to employment have chosen careers ranging from PR and translation through teaching to internships with Irish companies in Italy, working with both governmental and

commercial organisations. Of the graduates who opted for further study, some selected related courses in arts, social sciences, and European studies while others have selected law, marketing, journalism or teacher training.

Further information

italian@tcd.ie
Tel: + 353 1 896 2062

Near Eastern and Jewish studies

COURSE CODE:	**TR001 (TSM)**
PLACES 2006:	**10**
POINTS 2005:	**490**

Near Eastern and Jewish studies cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with Jewish studies see p. 31.

What is Near Eastern and Jewish studies?

Near Eastern and Jewish studies is concerned with the history, literature and religious practices and beliefs of the Jewish people from ancient times to the present day. By concentrating on one particular ethnic group, you will learn to understand the many dimensions and complexities of this and other cultures. You will also be able to examine specific instances of global phenomena such as identity, migration, cultural accommodation, and modernisation.

Is this the right course for you?

If you are interested in exploring the religious, cultural and historical foundations of western civilisation, and in gaining insights into issues such as assimilation and the formation of identity, you should study Near Eastern and Jewish studies.

Course content

Near Eastern and Jewish studies cover all time periods in Jewish history and will provide you with an overview of the most important textual and material sources, issues, debates, and methods of study. There are approximately six hours of lectures each week.

The Freshman and Junior Sophister years

During the first three years you are required to take three courses per academic year, which generally proceed chronologically, focusing on antiquity in the first year through to modernity in the third. If you wish, you may also take an optional course in Hebrew or Greek.

The courses you will study in the Junior Freshman (first) year are:

- **Introduction to Jewish civilisation from antiquity to modernity**
  This provides you with basic information on the study of Judaism, including bibliographical tools, methods of study, a general overview of the main scholarly debates and historical developments, and an introduction to Jewish religious customs and practices.

- **The ancient Near-East from the Iron Age to the Graeco-Roman period**
  This examines the social, political and economic history of the ancient Israelites, the changes that took place after the Babylonian exile and in the Hellenistic period, and the struggle to preserve religious customs and national independence.

- **Introduction to rabbinic Judaism**
  This introduces you to the study of rabbinic Judaism from the destruction of the Second Temple in 70 C.E. to the onset of Islamic rule in the 7th century. In the rabbinic period the main texts (Mishnah and Talmud) and institutions of Judaism (the rabbi, the synagogue, the local community) developed, which have remained important in medieval and modern times.

In the second and third years students explore various aspects of Jewish history and culture in greater detail. Senior Freshman (second year) courses examine fundamental principles of the biblical tradition, deal with Judaism in the Hellenistic and Roman periods and explore medieval Jewish history. In the Junior Sophister (third) year, students take courses on modern Jewish history and read and discuss biblical, medieval and modern Jewish texts.

The Senior Sophister year

If you elect to study Near Eastern and Jewish studies in your final year you will take three special subjects (or two, if you write a dissertation on a subject of your choice). Senior Sophister (fourth year) courses may include:

- Jewish identity in the modern world
- The development of the synagogue
- The role and status of women in Judaism
- Jewish-Christian-Muslim relations
- Jewish mysticism
- The Jewish experience in contemporary film
- The Holocaust in Jewish literature and theology
- The history of Zionism

Assessment structure

Essays must be completed each semester and there is a formal written exam for each course at the end of the academic year.

Did you know?

Trinity College is the only university in Ireland that offers a course in Near Eastern and Jewish studies.

Study abroad

The programme encourages all students to study abroad and to attend a Summer Ulpan (Hebrew course) in Israel and/or to spend a year in an Israeli or American university.

Career opportunities

The multidisciplinary nature of Near Eastern and Jewish studies enables you to learn a variety of critical methods of study (historical research, literary theories, social-anthropological approaches, art and archaeology), which are easily transferable to other subject areas and highly valued in today's job market.

Further information

tcd.ie/Religions_Theology/herzogcentre
Telephone: + 353 1 896 1297

Latin

COURSE CODE: TR001 (TSM)

PLACES 2006: 10

POINTS 2005: 395

Special entry requirements

Leaving Certificate	HC3	In Latin or in a language other than English
Advanced GCE (A level)	Grade C	In Latin or in a language other than English

Latin cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

When studied as one subject of a two-subject moderatorship you can study Latin ab initio (from beginner level).

For subjects that combine with Latin see p.31.

Latin may only be combined with Greek in the single honor degree Classics – TR021 (see p.36).

Is this the right course for you?

As a student of Latin, you will not be merely a student of language, but also of art and literature, of history, politics, philosophy and religion.

Course content

All classical texts are read in their original language. The texts studied cover a wide range of genres, including epic, drama, lyric poetry, philosophy and historiography (the study of history writing). The main emphasis of the course is on classical literature and thought viewed within its cultural context. Complementary studies of history, art history and archaeology encourage a comprehensive, interdisciplinary approach to classical culture.

The Junior Freshman year

In the Junior Freshman (first) year, two of your courses will be shared with students of ancient history and archaeology, classical civilisation, classics, and Greek.

- **Greek and Roman art and architecture** – an introductory survey of the chief periods and styles in Greek and Roman architecture, sculpture, painting and pottery
- **Introduction to Greek and Roman history** – an introductory survey of the history of Greece and Rome, from the Greek Archaic age to the early Roman principate (c.850BC-AD68)

The language component of the course will be different for students who have previously studied Latin than for students who are beginning the language from scratch.

Latin for beginners

- **Elementary Latin** – an introduction to the Latin language, with an emphasis on comprehension and grammatical knowledge
- **Mythology and religion** – study of Greek and Roman myths, as presented in Greek and Roman literature and art, followed by a study of the chief features of Greek and Roman religion

Latin for non-beginners

- **Latin texts** – this course covers the following authors: Catullus; Cicero, Pro Caelio; Virgil: selected books of the Aeneid.
- **Latin language** – the course offers revision and consolidation of basic grammar and syntax, leading on to more advanced work involving the reading and translation of a selection of texts in both prose and verse, unseen translation from Latin into English and translation from English into Latin in the form of a structured series of linguistic exercises.

The second and third years

In the Senior Freshman (second) and Junior Sophister (third) years you will continue with the study of Roman history, and improve your fluency in reading and accuracy through Latin translation classes.

Texts used for the translation class offer advanced study of a wide range of core literary texts in both prose and verse and help students towards the independent reading and appreciation of Latin literature in its historical context. As well as the translation of selected texts by the chosen authors and detailed literary and historical analysis, the course includes the application of textual criticism and literary theory.

History is taught through a mixture of lectures and small-group seminars conducted in teams and concentrates on the first three centuries of the Christian era.

The Senior Sophister year

If you elect to study Latin in the final year you will take two special subjects and write a thesis on a subject that is of relevance to the Classical world. Final year courses in the recent past have included Alexandria and Rome, didactic poetry and Flavian literature.

Assessment

Continuous assessment is combined with end-of-year examinations. Final year students must also complete a dissertation.

Career opportunities

Recent graduates have worked in many fields including art restoration, banking and accountancy, business, civil service, computers, journalism and broadcasting, law, librarianship, publishing, teaching and theatre.

Further information

tcd.ie/Classics
Tel: + 353 1 896 1208

Music

COURSE CODES:	**TR002**	**TR001 (TSM)**
PLACES 2006:	**10**	**8**
POINTS 2005:	**475**	**520**

These are restricted entry courses.

Applications MUST be submitted by 1 February of the proposed year of entry. Applicants will be required to attend an entrance examination provisionally scheduled for 31 March 2007.

On the basis of the entrance examination results, some applicants will be called to attend an interview (during April and May), before final selections are made. You are not required to perform at interview.

TR002 – Music is a single honor course where music is read almost exclusively for four years.

TR001 – Music (TSM) is a joint honors programme. Music can be combined with one other subject. Both subjects are studied for three years and one subject only is studied in the fourth and final year. An honors degree is awarded in both subjects.

For subjects that combine with music see p. 31.

Single honor and TSM students follow the same courses. While TSM students cover all the principal areas of music studied by single honor students, the workload is less than that of the single honor programme. TSM students have the same range of options as single honor students, including giving a recital in the Sophister (third and fourth) years.

See also:

TR009 – Music education p. 68

Is this the right course for you?

As an academic discipline, music fosters independence of thought, creativity, critical and analytical skills, and intellectual awareness. You will also have plenty of opportunity to perform, conduct ensembles, and gain experience of arts administration.

Trinity's facilities include a recital room, computer workstations, a small music studio (plus more extensive, shared facilities elsewhere), excellent listening equipment, and a substantial lending collection of CDs (with a growing library of videos for students to borrow). In addition to its general holdings of books and music, the Trinity Library also houses an extensive listening collection of compact discs.

Course content

The course moves from a general introductory year through to in-depth specialisations in the final year. The Junior Freshman (first) year provides a firm foundation in basic musical skills. In the Senior Freshman (second) year, you will to choose a specialist area from the fields of composition, musicology and music technology.

Students who specialise in composition will receive a thorough grounding in compositional techniques; they present a portfolio of their compositions as their final year project. If you specialise in music technology you will produce a major project in the final year. Specialisation in musicology involves a range of courses relating to historical and analytical subjects, which culminates in a dissertation in the fourth year.

The Junior Freshman year

The Junior Freshman (first) year is designed to ensure that you are fully competent in basic musical skills and provides an introduction to historical and analytical musicology and music technology. The main areas of study are compositional technique, keyboard and aural training, music analysis, music technology, and the history of music.

Courses include:

- **Aural training** – using moveable Doh, Solfege or Solfa. The course will improve your basic musical skills in areas such as musical dictation, oral sight-reading, and score reading
- **Introduction to harmony** – clarifies the relationship between surface detail and underlying harmony in the music of the common-practice period
- **History of music** – an introduction to the music of Baroque and early Classical periods in a broad cultural context (this forms part of a four-year programme of general music history)
- **Introduction to contemporary music** – an introduction to music written since the late 19th century. You will study important developments in the compositional history of music of the 20th and 21st centuries, such as the development of atonality, indeterminacy, electronic and computer music, improvised music and minimalism
- **Introduction to music analysis** – includes re-assessment of the elements of a musical text and the ways in which they come together to form increasingly large units
- **Keyboard skills** – will enable you to play four-part chorales at sight with a secure rhythm; to play chord progressions over a given bass part; and to transpose a chorale or figured bass up or down a tone or semitone
- **Music technology** – includes computer orientation, and introduction to MIDI protocol, audio signals and computer-based notation and sequencing
- **Notation and rudiments** – orthography (convention of musical notation), rudiments (intervals, scales etc.) transposition and part-writing
- **Introduction to counterpoint** – the study of Fuxian species counterpoint, enabling you to acquire a command of basic polyphonic composition
- **Style and presentation** – an introduction to research methodologies and guidance in structuring an argument, essay writing and in matters of style and presentation. Part of this course is devoted to training students in critical reading of texts

Years two, three and four

In the Senior Freshman (second) year you will continue with subjects such as harmony, counterpoint and history from the first year while beginning to explore your specialist area. You must also select a Broad Curriculum course (see p. 27 or **tcd.ie/Broad_Curriculum**). In the Sophister (third and fourth) years study becomes more concentrated on your chosen specialisation. There is a wide range of courses to choose from within this specialisation and some overlapping with other specialisations is always possible.

In the recent past, Sophister options have included:

- Film music
- From sketch to score
- Fugue
- The German Lied in the 19th century
- Music and language
- Music in education
- Sonata structures
- Spectral composition
- Web design

Assessment

In addition to end-of-year examinations, there are regular assignments in most courses. These include essays and exercises in composition.

Career opportunities

The employment record for graduates in music is good. Some recent graduates have developed careers in performance, teaching and administration, while others have undertaken postgraduate research in Ireland and abroad.

Further information

tcd.ie/Music
Tel: + 353 1 896 1120

Music education

COURSE CODE: TR009

PLACES 2006: 10

POINTS 2005: 450

This is a restricted entry course

Applications MUST be submitted by 1 February of the proposed year of entry. Applicants will be required to attend an entrance examination provisionally scheduled for 31 March 2007.

On the basis of the examination results, some applicants will be called to attend an interview during May before final selections are made. Performance will feature as one element of the interview.

See also:

TR002 – Music p. 66

Education p. 84

Course overview

The Bachelor in Music Education degree is designed to provide for the academic and professional requirements of those wishing to become music teachers at secondary school level. It is taught in conjunction with the Dublin Institute of Technology Conservatory of Music and Drama and the Royal Irish Academy of Music.

This four-year programme will equip you with a high standard of performance in the instrument of your choice, as well as with an associated competence in related musical skills, i.e., conducting, keyboard skills and performance in choral, orchestral and chamber music groups. The course also provides for a solid grounding in harmony, counterpoint, composition, orchestration, analysis and history of music.

Is this the right course for me?

If you enjoy music, already have a reasonable standard of performance, and wish to combine these qualities with a teaching career, then this course will be ideally suited to you.

Course content

A basic feature of the course is personal development in music, evoking the ability to arouse the interest and enthusiasm of pupils. You will be encouraged to engage in ensemble work at a level appropriate to your own ability. Opportunities to perform are provided, offering realistic goals for all, including the exceptionally gifted. Supervised practice in all aspects of classroom teaching is provided, in addition to instrumental/vocal practice.

Music courses

- First instrument – individual tuition (Irish traditional instruments may be offered)
- Aural perception and keyboard skills
- Harmony and counterpoint
- History of music
- Irish music
- Practical musicianship (singing and recorder)
- Conducting
- Special repertoire class for first instrument
- Music technology

Education courses

- Practice of music education, including teaching practice
- Educational psychology
- Philosophy of education
- Sociology of education

History

A complementary course in history – compulsory in the Junior Freshman (first) year – is offered in all years.

This is a four-year general history course in Irish and European history. There is also a course in the methodology of history teaching. Completion of the course will equip graduates to teach history as a second subject.

Assessment

A combination of continuous assessment, practical and written examinations and teaching practice makes up the assessment.

Further information

tcd.ie/Education/BachelorinMusicEducation.htm

Russian

COURSE CODE:	**TR001 (TSM)**	
PLACES 2006:	**36**	
POINTS 2005:	**335**	
Special entry requirements		
Leaving Certificate	HC3	In a language other than English
Advanced GCE (A level)	Grade C	In a language other than English

Russian cannot be studied as a single honor course. It must either be combined with one other subject within the two-subject moderatorship (TSM) programme, selected as one of the two languages studied in the European studies programme or studied as the chosen language of the Business studies and a language programme.

TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth and final year. An honors degree is awarded in both subjects.

For subjects that combine with Russian see p. 31.

Within European studies both languages are studied equally for the first year after which one language becomes the major and the other the minor language.

Russian is normally studied ab initio (from beginner level) in all courses.

See also.

TR024: European studies – Russian with French/German/Italian/Polish or Spanish (p. 44).

TR086: Business studies and Russian (p. 80).

Why study Russian?

Russian is the native language of nearly 140 million people and is one of Europe's most important languages. Today Russia is a rapidly changing society, in which the adoption of a market economy and principles of openness have created unprecedented opportunities for work, study and travel for Trinity students and graduates.

Is this the right course for me?

You will find the Russian programme exciting and rewarding if you enjoy language study, are interested in unfamiliar cultures, and have a sense of adventure and are not afraid of a challenge.

Course content

Nearly all students start Russian from scratch with an intensive first year language course. Special provisions can, however, be made for students with prior knowledge of Russian (heritage speakers, near-native speakers or those who have an entrance qualification in Russian).

In addition to language study, you will take courses on aspects of Russian literature, Russian history and Russian culture, society and politics. In later years, you will also have the option to study Slavonic linguistics and the Polish language.

The Freshman years

In the Freshman (first and second) years, classes cover three main areas:

- Russian language: develops fluency in reading, writing, speaking and listening
- Russian Literature
- Russian area studies

The Sophister years

In addition to advanced language study, the Sophister (third and fourth) years of your course offer a wider range of subject choices, allowing you to choose options that reflect your own particular interest. These include Russian literature, history of Russia and the Soviet Union, Russian and Slavonic linguistics, Russian society and politics, and the Polish language.

If you elect to study Russian in your final year you will also research and write a dissertation on a subject of your own choice.

Assessment

Assessment is by a combination of continuous assessment of your language work, language tests and essays, in addition to written and oral examinations at the end of each year.

Did you know?

Trinity College is the only university in Ireland where you have the opportunity to do a degree in Russian and Polish.

Study abroad

You will be encouraged to spend up to a year studying in Russia after second or third year. Trinity has close connections with universities and institutes in Moscow, St. Petersburg and in a number of provincial towns.

Career opportunities

Career paths followed by recent graduates include: arts and media; business and finance; civil and public service; education; international organisations (UN, EU, NGOs); IT and telecommunications. Each year some graduates also opt to pursue a research career beginning with postgraduate study in Ireland or abroad.

Further information

tcd.ie/Russian
Tel: + 353 1 896 1896

Spanish

COURSE CODE:	**TR001 (TSM)**	
PLACES 2006:	**39**	
POINTS 2005:	**405**	
Special entry requirements		
Leaving Certificate	HC3	In a language other than English
Advanced GCE (A level)	Grade C	In a language other than English

Spanish cannot be studied as a single honor course. It must either be combined with one other subject within the two-subject moderatorship (TSM) programme or be selected as one of the two languages studied in the European studies programme. Spanish can be studied ab initio (from beginner level) in both TSM and European Studies.

TSM is a joint honors programme. Both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with Spanish see p. 31.

Within European studies both languages are studied equally in the first year after which one language becomes the major and the other the minor language.

See also:

TR024: European studies – Spanish with French/German/Italian/Polish or Russian (p. 44)

Is this the right course for you?

Spain, currently one of Europe's leading industrial nations, was in the sixteenth and seventeenth centuries the foremost western power, and Spanish is today the native language of over four hundred million people. In terms of the number of countries – more than twenty – in which it is officially spoken, it is second only to English. If you are interested in reading and in the language and culture of Spain and Spanish America, then this is a course you will enjoy.

Course content

Spanish at Trinity is taught by a variety of methods to equip you with a comprehensive range of skills in the accurate, fluent and sensitive understanding and use of the written and spoken language. If you are a beginner the teaching

provided offers a realistic opportunity for you to reach the same standard within a year as those who have studied the language previously.

The development of the skill of textual analysis through close and careful reading, together with the organisation and expression of ideas in written and verbal form, are integral aims of the department.

The Junior Freshman year

The primary focus of the Junior Freshman (first) year is to establish and consolidate your competence in understanding and using the Spanish language.

The course covers four main areas:

- Introduction to language study
- Language classes (beginners attend seven per week and non-beginners attend six per week). These comprise classes in grammar, text analysis, practice in speaking and listening to Spanish
- Introduction to modern Spain
- Literature: close study of a different range of modern Spanish and Spanish-American literature, based on five texts

Years two and three

You will continue with language tuition taking three classes each week:

- Spanish language
- Syntax and vocabulary of Spanish
- Spoken Spanish

Starting in the Senior Freshman (second) year and extending into the third (Junior Sophister) year you follow courses in Hispanic linguistics and the literature of the Spanish Renaissance, modern Spain and modern Spanish America. A course on the history of early-modern Spain is also given.

The Senior Sophister year

If you elect to study Spanish in the Senior Sophister (fourth) year, you will work more independently and with significant freedom of choice. As well as studying Spanish language, theory of translation and medieval Spanish literature, you will choose two from a range of special subjects. You will also research and write a dissertation under the supervision of a member of the department on either a given topic or one that is of special interest to you.

Assessment structure

Essays submitted throughout the year are combined with written and oral examinations at the end of each year.

Study abroad

Students are encouraged to spend a year in Spain or Spanish America, especially at one of the universities with which we have close associations, such as Granada, León, Salamanca, Seville, or the Colegio de México. At a minimum, you will be required to spend two months in a Spanish-speaking country prior to taking your final exams.

Further information

tcd.ie/Hispanic_Studies
Tel. + 353 1 896 1257

Bachelor in Acting Studies

This is a practical degree offered in conjunction with the Abbey Theatre (the National Theatre of Ireland).

An ordinary degree of B.A. is normally awarded at the end of three years. However, from 2007, graduates of the course may apply for admission to an optional fourth year which will lead to an honors B.A. degree. (Level 8).

Entry Requirements

Applicants will be called for an audition in the spring. Final selection of applicants is determined by a panel of staff and other experts and is based primarily on acting ability and acting promise.

All applicants are expected to satisfy the matriculation requirements of the University (see p. 21), although this requirement may be waived in exceptional circumstances.

Application Procedure

This is a non-CAO course. Students wishing to apply for admission are required to obtain an application form from the Admissions Office. Completed applications must be returned by 1st March 2007 for entry to the academic year commencing in October 2007.

Application forms are available to download from **tcd.ie/Admissions**

Alternatively, an application form may be obtained from: Admissions Office, West Theatre, Trinity College, Dublin 2.

Tel: + 353 1 896 1072, Fax: + 353 1 872 2853
Email: **admissns@tcd.ie** or visit **www.tcd.ie**

The Government's Free Fees Initiative DOES cover this course. EU Students registered for the Bachelor in Acting Studies may be eligible for inclusion in the scheme.

The course is designed to train actors for the professional theatre. While it pays particular attention to Irish and Western theatre traditions, the training is accomplished in the context of world theatre practice. The course takes the approach of an acting conservatory, with a small core team of staff teaching a small group of students (up to 16 each year) who receive individual monitoring of their progress throughout their training. The methods and approaches used during training are derived from the key practitioners of the modern period, including Lecoq, Laban, Meyerhold, Feldenkrais, Cicely Berry, Roy Hart, Kristin Linklater, Peter Brook, Grotowski, Mnouchkine, and Michael Chekhov, as well as Brecht and Stanislavsky.

Course content

The course develops and extends acting skills through acting classes, improvisation, scene study, text work, script analysis, voice, movement, and the production of full-length plays. It also places the work of the actor in the wider context of theatre as a cultural practice, through a series of classes in which literary, historical and sociological aspects of drama, theatre and performance are examined.

In the first two years, students study acting, improvisation, voice, singing, movement, dance, and text, and also attend lectures in theatre history, performance analysis, and non-Western theatre. The second year includes a small-scale production, usually based on ensemble practice. The emphasis of this first part of the training is on development and exploration – of self, body, voice and of the different approaches to theatre. It is a time for testing and experimenting. The final year is given over chiefly to three productions mounted at a professional level in the Samuel Beckett Theatre with professional directors. In addition, students attend workshop classes and lectures in contemporary theatre practice. They prepare a formal audition showcase for theatrical agents, casting directors and theatre directors, which is performed at the Abbey Theatre. Throughout the course, students can expect to be in classes or rehearsals on a full-time basis.

The additional, fourth Honors year is characterised by the study of three core modules that will call upon the student to engage in individual supervised research and performance to a greater extent and in greater depth than in previous years of the course. The aim is to equip students with advanced professional competence to enhance career progression.

Further information

tcd.ie/Drama
Tel: + 353 1 896 2266

Diploma in Deaf Studies

Application Procedure

This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 31st May 2007 for entry to the academic year commencing in October 2007.

Application forms are available from the Centre for Deaf Studies or online at **tcd.ie/Deaf_Studies**

Information and application forms available from:

Centre for Deaf Studies, University of Dublin, Trinity College
40 Lower Drumcondra Road, Drumcondra, Dublin 11.

Tel: 01 830 1252
Fax: 01 830 1211
Email: cdsinfo@tcd.ie
Web: **tcd.ie/Deaf_Studies**

The Government's Free Fees Initiative DOES cover this course if it is taken on a full time basis. EU students registered for the Diploma in Deaf Studies may be eligible for inclusion in the scheme.

The Diploma in Deaf Studies is a two-year full-time course or three-year part-time course. It provides a comprehensive introduction to the Deaf community and Irish Sign Language for those wishing to work in or with the Deaf community. Central importance is given to the development of (i) proficiency in Irish Sign Language, and (ii) an understanding of the position of the Deaf community in Irish society and internationally. Other course modules deal with issues such as sign linguistics, bilingualism, the sociolinguistics of sign language, Deaf people in society, ethics and professional practice, and an analysis of social policy underlying service provision to the Deaf community.

Selection and assessment processes

Candidates will be selected by interview: no prior knowledge of Irish Sign Language (ISL) is required. Award of the diploma is based on continuous assessment, a practice placement, and final examinations. A student whose placement performance is considered unsatisfactory may, in exceptional circumstances, be allowed a further placement experience. Appropriately qualified candidates who are currently working in a professional capacity within the Deaf community may take the diploma on a part-time basis over three years. In this instance, candidates are required to complete twenty taught modules (ISL is compulsory) and must complete a dissertation. In such circumstances, award of the diploma is based on continuous assessment, submission of a dissertation on a subject area within the remit of Deaf studies, and final examinations.

Diploma in Irish Sign Language/ English Interpreting

Application Procedure

This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 31st May 2007 for entry to the academic year commencing in October 2007.

Application forms are available from the Centre for Deaf Studies or online at **tcd.ie/Deaf_Studies**

Information and application forms available from:
Centre for Deaf Studies, University of Dublin, Trinity College
40 Lower Drumcondra Road, Drumcondra, Dublin 11.

Tel: 01 830 1252
Fax: 01 830 1211
Email: **cdsinfo@tcd.ie**
Web: **tcd.ie/Deaf_Studies**

The Government's Free Fees Initiative DOES cover this course. EU students registered for the Diploma in Irish Sign Language/English Interpreting may be eligible for inclusion in the scheme.

The Diploma in Irish Sign Language/English Interpreting is a two-year full-time course and includes professional placement opportunities. It provides professional training for those who wish to work as Irish Sign Language/English interpreters. Central importance is given to the development of (i) proficiency in Irish Sign Language, and (ii) on interpreting skills. Other course modules deal with issues such as sign linguistics, bilingualism, the sociolinguistics of sign languages, Deaf people in society, ethics and professional practice.

Selection and assessment processes

Candidates will be selected by interview; criteria for selection will include proficiency in Irish Sign Language and likely capacity to satisfy the academic requirements of the course. The award of the diploma is based on continuous assessment of course modules, a practice study based on the placement, and final examinations in interpreting. A student whose placement performance is considered unsatisfactory may, in exceptional circumstances, be allowed to undertake further practice. Students must achieve a grade average of 50% in ISL and interpreting modules in order to rise to the second year of the Diploma in ISL/English Interpreting.

Diploma in Irish Sign Language Teaching

Application Procedure

This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 31st May 2007 for entry to the academic year commencing in October 2007.

Application forms are available from the Centre for Deaf Studies or online at **tcd.ie/Deaf_Studies**

Information and application forms available from:

Centre for Deaf Studies, University of Dublin, Trinity College
40 Lower Drumcondra Road, Drumcondra, Dublin 11.

Tel: 01 830 12 52
Fax: 01 830 12 11
Email: **cdsinfo@tcd.ie**
Web: **tcd.ie/Deaf_Studies/**

The Government's Free Fees Initiative DOES cover this course. Students registered for the Diploma in Irish Sign Language Teaching may be eligible for inclusion in the scheme.

The Diploma in Irish Sign Language Teaching is a two-year full-time course that includes regular teaching practice. It provides professional training for those who wish to teach Irish Sign Language. Central importance is given to the development of proficiency in Irish Sign Language and to the design and implementation of Irish Sign Language courses. Other course modules deal with such issues as sign linguistics, bilingualism, the sociolinguistics of sign languages, and Deaf people in society.

Selection and assessment processes

Candidates will be selected by interview; criteria for selection include proficiency in Irish Sign Language and likely capacity to satisfy the academic requirements of the course. The award of the diploma is based on continuous assessment of course modules and teaching practice, as well as on a project in course design. A student whose teaching practice is considered unsatisfactory may, in exceptional circumstances, be allowed to undertake further practice. Students must achieve a grade average of 50% in teaching and assessment related modules in order to rise to the second year of the Diploma in ISL Teaching.

Bachelor in Theology

Application Procedure

This is not a CAO course. Students wishing to apply for admission are required apply directly to the Church of Ireland Theological College. Completed applications must be returned by 1 July 2007 for entry to the academic year commencing in October 2007.

Information and application forms available from:

The Principal of the Church of Ireland Theological College, Braemor Park, Dublin 14.

Tel: + 353 1 492 3506
Web: **www.citc.ie**

The Government's Free Fees Initiative DOES NOT cover this course. Students registered for the Diploma/Degree in Theology will be required to pay tuition fees.

This professional degree course is conducted with the needs in mind of those who intend to enter the ordained ministry of the Christian church. Specifically it is constructed to meet the needs of those who intend to offer themselves for ordination in the Church of Ireland or one of its sister churches within the Anglican Communion.

The structure of the course provides for both the academic and professional requirements of those seeking ordination. The course is taught jointly by the University of Dublin and the Church of Ireland Theological College (although provision exists for the participation of other institutions which may wish to be associated with the teaching of the course). The University provides the teaching of academic aspects of the course, and the Theological College undertakes the teaching of denominational aspects with the professional and practical skills.

There are three levels of award:

- Diploma in Theology (3 years)
- Bachelor in Theology (ordinary degree) (3 years)
- Bachelor in Theology with honors (4 years)

In the first three years of study for all levels the component courses are grouped under three headings:

- Theory [Academic training]
- Professional training
- Practical work

In the fourth honors year, the emphasis is on academic theology.

To be considered for admission to the course you will be required to satisfy the normal matriculation requirements of the University (see pg 21).

Irish Studies: An Interdisciplinary course in Irish Civilisation

COURSE CODE:	**TR027**	
PLACES 2006:	**20**	
POINTS 2005:	**N/A**	
Special entry requirements		
Leaving Certificate	HC3	In a language other than English
Advanced GCE (A level)	Grade C	In a language other than English

Course Overview

This is an exciting new interdisciplinary programme which has been designed by the Irish, English and History Departments to give you the opportunity to study in depth the language, literature, history and culture of Ireland. The purpose of the course is to provide you with a working knowledge of modern Irish; to enable you to study Irish literature in the Irish and English languages; to allow you to study the main periods of Irish history; and to familiarise you with key issues in the subject and in critical and cultural theory. Instruction at beginner's level will be provided for those with no previous knowledge of Irish.

Is this the right course for you?

If you have an interest in the languages, literature, history and culture of Ireland, you will enjoy this course. You will also need an aptitude for language learning.

Course content

There will be a mixture of compulsory and optional courses. During the final year, there will be particular emphasis on optional courses, allowing you to specialise in areas where you have developed particular interests. Assessment throughout the four years will be a mixture of continuous assessment and examination. You will also write a dissertation in your final year. Courses are likely to include:

The Junior Freshman year

- Irish Language
- Irish Literature
- Theorising Ireland
- History of Ireland, 1014-1534
- Imagining Ireland – a multidisciplinary course which will seek to examine how Ireland and the Irish have been represented in visual culture, in the literary arts and historical discourse from earliest times to the present.

The Senior Freshman year

- Irish Language
- Irish Writing in English, 1590-1800
- History of Ireland, 1500-1800
- Ideas and Society in Ireland: From Cromwell to the Good Friday Agreement: 1658-1998
- There will also be a choice of optional courses

The Junior Sophister year

- *Either* Introduction to Early Irish or Literature in Irish
- Irish Writing in English, 1800-1880
- Writing Ireland
- History of Ireland, 1800 to the present
- There will also be a course on Research Methodologies in preparation for the dissertation which you will write in the Senior Sophister year

The Junior Sophister year

- You will choose three options from those on offer and will write a dissertation.

Career opportunities

Graduates in Irish Studies can expect to arrive at the normal range of career destinations for Arts and Humanities graduates; for example, teaching, journalism, administration, management, civil service, the diplomatic corps, publishing, media work, advertising, public relations, human resources, etc.

Further information

tcd.ie
Tel. + 353 1 896 2625

Faculty of Social and Human Sciences

Undergraduate programmes

TR004	Law
TR005	Philosophy
TR006	Psychology
TR014	Philosophy and political science
TR018 & TR019	Law with a language (French or German)
TR081	Business, economic and social studies (with specialisations in business studies, economics, political science, sociology and contemporary European integration)
TR085 – TR087	Business studies and a language (French, German or Russian)
TR083	Sociology and social policy
TR084	Social studies (Social Work)
CE001	Education – Church of Ireland College of Education
CM001/002	Education – Coláiste Mhuire, Marino
FR001/002	Education – Froebel College, Sion Hill, Blackrock

In addition to the above programmes, economics and sociology can be combined with a number of different options under the two-subject moderatorship (TSM) programme (TR001)
– see page 31 for permitted combinations.

Political science can be combined with history (TR012) or philosophy (TR014).

Direct entry (non-CAO) courses in addiction studies (diploma) and in Business and Information Technology (degree).

Three key features of all programmes in the Faculty of Social and Human Sciences are:

A multidisciplinary approach – we believe that business and the social sciences should be studied in an integrated way and that students should be given the opportunity to find out which subjects best suit their interests.

An international context – Trinity's enviable international reputation is very much in evidence within the Faculty, which enjoys close relations with prestigious universities throughout Europe, North America and Asia. Applications from overseas students are welcome, and our students are likewise encouraged to study abroad in the Junior Sophister (third) year. Optional language courses are available in the Freshman (first and second) years to students who would like to participate in the international programmes.

An *academic staff* that is committed to applying theory to practice. Trinity academics play a leading role in advising governments, banks, major corporations, and political parties. Many have published their research in leading academic and business journals.

Business, economic and social studies (common faculty entry)

COURSE CODE:	**TR081**	
PLACES 2006:	**216**	
POINTS 2005:	**470**	
Special entry requirements		
Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

Course overview

The structure of the BESS course reflects Trinity's commitment to providing students with a broadly based education combined with the opportunity to specialise to a high level in a chosen subject or area.

TR081 leads to one of the following degrees:

- Bachelor in Business Studies (BBS)
- BA (Moderatorship) in Economic and Social Studies

  The BA Moderatorship can be taken as single or joint* honors in:

  - Business studies (joint honor)
  - Economics (single or joint honor)
  - Political science (single or joint honor)
  - Sociology (single or joint honor)
  - Contemporary European Integration (single honor)

* Joint honor degrees are available in any two of business studies, economics, political science or sociology. The exception is economics and sociology, a combination that is available only within the two-subject moderatorship programme (TR212).

Is this the right course for you?

One major advantage of the BESS programme is that it offers flexibility and choice. Because there is a common first year, an incoming student has exposure to a broad range of social science subjects. BESS gives you the freedom to discover and develop interests you may not be aware you have until you enter university. It is not until the beginning of the Senior Freshman (second) year that you need to start making choices between subjects.

Did you know?

All of the departments that contribute to the BESS programme have very good international reputations and Trinity is the only Irish University in the top 100 in Social Science.

Trinity's Business School is ranked in the top 15 business schools in Europe by both the Financial Times and The Economist. It is recognised for its critical and rigorous approach to management and for its internationalism.

Trinity's Department of Political Science is one of the best political science departments in the world, ranking third in Europe in terms of research per staff member in a recent international survey.

The Freshman years

All students follow a common first year that comprises foundation courses in economics, management, political science, sociology and mathematics/statistics. This year is an introduction to subjects that you may not have taken at school and gives you an opportunity to explore without committing to particular subjects. An additional option to study either French or German is also available in the Junior Freshman (first) year.

Lectures are complemented by smaller tutorial groups in which individual members of staff work with students in small groups throughout the year. In this way students are provided with the best of both worlds: lectures deliver authoritative summaries of material, which is then analysed in detail in small groups.

The Senior Freshman (second) year allows you to broaden your knowledge of the subjects studied in first year and enables you to focus on one or two particular subjects. The range of subjects on offer is drawn from business studies, economics, political science, and sociology, as well as from complementary disciplines in the areas of law, psychology, economic geography, philosophy and social policy. If you continue with the optional language and successfully complete the course you will be awarded a Certificate in Language Proficiency. Students may take a Broad Curriculum course as one of their six courses in the Senior Freshman (second) year in order to broaden their horizons.

Find out more at **tcd.ie/Broad_Curriculum** or see page 27.

At the end of the Senior Freshman (second) year you will decide which of the ten degree courses to follow.

The Sophister years

Courses in the Sophister years (three and four) aim to deepen your knowledge and understanding of the particular subject(s) you have chosen to follow to degree level in either business, economics, sociology, political science or combinations of these subjects. In addition, you will usually have the opportunity to take an optional course in social policy, law, psychology or geography in the Junior Sophister (third) year. In the final year students may also be required to prepare a dissertation or case study.

Assessment structure

Most BESS courses involve a system of continuous assessment with tests, essays, projects and papers contributing up to 50% of the overall grade for the year. The remainder is based on the results of written examinations.

Languages and study abroad

Many students in BESS have the opportunity to study abroad in their third year. First and second year BESS students have the option to study either French or German. As numbers are limited on these courses, admission in year one often depends on the results of the Leaving Certificate, or equivalent qualification, in the relevant language.

At the end of the Senior Freshman (second) year, you may qualify for a Certificate in Language Proficiency, which in turn entitles you to apply to participate in a SOCRATES exchange programme. This will mean spending all or part of the Junior Sophister (third) year abroad at a university in Germany, Belgium, Austria or France.

The Faculty also offers English speaking international exchange programmes to prestigious universities in Europe, North America, Australia and in several Asian countries including Japan, Hong Kong, Taiwan and South Korea.

In addition, there are a limited number of places available on two degree programmes involving an extended period of study at either the École Européenne des Affaires de Paris (EAP) or the École des Hautes Etudes Commerciales (HEC). These lead to the double award of the degree of B.A. (Moderatorship) with honors or the Bachelor of Business Studies from the University of Dublin and a postgraduate qualification from the partner institutions.

Career opportunities

BESS is your roadmap to a wide and varying career. About 25% of our graduates proceed to further study in masters and doctoral programmes both in Ireland and abroad. The remaining 75% enter a diverse range of employment in areas such as:

- Accountancy
- Banking and corporate finance
- Public service
- Management consulting
- Entrepreneurial ventures
- Economic and political journalism
- Professional training
- Teaching

The skills gained on this multidisciplinary programme will stand to you in whatever career path you choose.

Further information

Email **bess@tcd.ie** or **visit tcd.ie/BESS**

BESS at a glance

Junior Freshman (first year) Students take all courses:	Senior Freshman (second year) Students select 6 of:	Sophister years (third and fourth years) Degree options
Economics	Intermediate economics	**Single honor degree in one of:**
Mathematics and statistics	Economy of Ireland	
Sociology	Economics of public policy	Business studies
Business studies	Mathematical and statistical methods	Economics
Political science	Statistical analysis	Political science
	Introduction to social research	Sociology
	Central problems in philosophy Logic and methodology of science	
Optional courses:	Western European society	Contemporary European Integration
	Sociology of development	
French or German	Accountancy	**Or**
	HR and Marketing	
	History of political thought	**Joint honor degree in two of:**
	International political theory	
	European politics	Business studies
	Psychology	Economics **
	Law	Political science
	Introduction to social policy	Sociology **
	Economic geography	
	French or German *	
	Students may take a Broad Curriculum course as one of their six courses in the Senior Freshman (second) year. See pg 27 or **tcd.ie/Broad_Curriculum**	** Economics and sociology may be combined only within the two-subject moderatorship programme (TR212). For other subjects that combine with economics and with sociology see pg 31.
	** Students who successfully completed a language course in the Junior Freshman year may choose French or German as one of their six subjects in second year.*	

Business studies and a language (French, German or Russian)

COURSE CODES:	TR085 (French)	TR086 (German)	TR087 (Russian)
PLACES 2006:	15	20	7
POINTS 2005:	485	400	405

Special entry requirements

Leaving Certificate	OC3/HD3	Mathematics (TR085, TR086 & TR087)
	HC1	French (TR085)
	HC1	German (TR086)
	HC3	In a language other than English (TR087)
GCSE	Grade B	Mathematics (TR085, TR086 & TR087)
GCE	A Level	Grade C French (TR085)
		Grade C German (TR086)
	Grade C	In a language other than English (TR087)

Course overview

The programme offers a very exciting way to experience the satisfaction of getting to grips in an in-depth and comprehensive manner with another language, its society, culture and business environment.

Is this the right course for you?

As a student on this programme you will be required to demonstrate a high level of motivation and commitment to all aspects of language learning. Learning a language from beginner's level requires considerable effort on your part, particularly in the Freshman (first two) years. Special provisions can be made for students with prior knowledge of Russian (heritage speakers, near-native speakers or those who have an entrance qualification in Russian).

Course content

This programme aims to provide you with the knowledge and skills necessary to communicate internationally and to understand the social, political and cultural contexts of markets, organisations and management across countries. In addition to studying courses in business, economic and social studies, you will study the society, institutions, culture and civilisation associated with your chosen language.

Teaching is specifically geared to the everyday needs, both formal and informal, of business managers. Accordingly, the language components of the programme will have a contemporary socio-economic and business orientation, as distinct from a historical or literature-based perspective. Much of the teaching is provided through the target language, to build language skills and knowledge relevant to cross-cultural management simultaneously.

The Freshman years

Courses in the first and second years include:

Business Studies

- Marketing
- Human resource management
- Economics
- Mathematics
- Accountancy and financial analysis
- Operations management

There is also the option to attend courses such as European society and politics, psychology, and the economy of Ireland in second year.

Language

- Practical language
- Contemporary society
- Institutions
- History and culture
- The overall business environment

The Sophister years

The Junior Sophister (third) year, including a short work placement at the end, is spent at a university in the country of the language in which you are specialising. Trinity has exchange agreements with more than 20 universities and business schools in Europe, Asia and North America.

In the Senior Sophister (fourth) year you will research and write a dissertation in your selected language concerning issues in management, industry or organisation relevant to that country. Regular course work will continue throughout this year.

Assessment

Written, oral and aural examinations are combined with continuous assessment and a final year dissertation to make up the evaluation process.

Career opportunities

On graduation you will have high-level competency in the language together with a strong academic knowledge of international business and management. Recent graduates are employed by companies such as Goldman Sachs, AIB Capital Markets and the National Bank of Iceland as well as embassies and public sector bodies. Many are working in financial, analyst or marketing roles.

Further information

Email **bussec@tcd.ie** or visit **tcd.ie/Business_Studies**

Economics

COURSE CODES:	**TR081**	**TR001 (TSM)**
PLACES 2006:	**216**	**43**
POINTS 2005:	**470**	**450**
Special entry requirements		
Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

Economics can be taken in combination with one other subject within the two-subject moderatorship (TSM) programme (TR001). TSM is a joint honors programme. Both subjects are studied for three years and usually one subject only is studied in the fourth and final year. When economics is combined with geography, German, mathematics or sociology, students may opt to study both subjects equally for all four years. For subjects that combine with economics see pg 31.

Alternatively, economics can be studied through the common entry BESS (TR081) programme. After a common first year students select 6 subjects in second year. At the end of the second year students may opt to take a single honor degree in economics or to combine economics with either business studies or political science.

For details see pg 77.

What is economics?

Many of the problems that dominate our newspaper headlines are economic problems. Why are some countries poor with very low growth rates while a small number of countries enjoy high living standards and high growth rates? What is the role of international trade and finance in explaining these global inequalities? Why are some countries so much more successful at creating employment or reducing unemployment than other countries? Within countries, why do some people earn so much more than others, and what are the best ways to tackle and reduce poverty? Is it possible to pursue economic growth and still protect our natural and physical environments? How should governments try to raise the finance needed to pay for health and education services and income support programmes? What is the proper role for government in the economy? Would we be better off with higher taxes but also better social services than we presently enjoy?

Any society has to address the problem of how and what to produce for its material survival, and how the goods and services that are produced should be distributed among its population. Economists explore how people and institutions behave and function when producing, exchanging and using

goods and services. Economists' main motivation is to find mechanisms that encourage efficiency in the production and use of material goods and resources, while at the same time producing a pattern of income distribution that society finds acceptable.

Economists aim to develop theories of human behaviour and test them against the facts. These theories are summarised in economic models that best explain the events we observe. An important part of the work of an economist is collecting and analysing data about economic phenomena – prices, employment, costs, etc. The art of the economist is to blend together theory, data and statistical techniques to arrive at a new understanding of economic problems or to make policy recommendations that hopefully will improve the welfare and living standards of our society.

> "The Department of Economics has a distinguished record of research and scholarship and includes some outstanding scholars .... The Department's record in advising government on policy matters and its contribution to the 'dramatic improvement in Irish policy and economic performance' are laudable."
>
> Extract from the external review of the Department of Economics, 2002

Who should study economics?

A key feature of economics at Trinity is the wide range of options from which you can choose. As well as core subjects in the theory of economics, you have the opportunity to apply theory to real world problems in courses such as public policy, the economics of less developed countries, investment analysis, transport economics and industrial economics.

(i) **The policy oriented student:** the student who is interested in current economic affairs, both national and international. If you have a particular interest in the workings of the European Union, or in understanding how government action might be used to pursue economic and social goals such as lowering unemployment, reducing poverty or assisting the Third World, you will find a variety of courses to choose from in the economics curriculum in Trinity.

(ii) **The finance/accountancy oriented student:** the student who would like to follow a career eventually leading to employment in the accountancy/financial services sector. The economics programme provides a number of courses to introduce students to this area and financial economics is a rapidly growing part of the discipline. Courses include investment analysis, economics of securities markets, monetary economics, accounting and industrial organisation theory in their degree.

(iii) **The quantitative/theory oriented student:** the student who particularly enjoys mathematics and abstract thinking. If you are strong in mathematics and with an interest in current affairs and are considering engineering or physics, for example, you should also consider economics as a degree option.

Course overview

When taught through the TSM programme, economics teaching in the Freshman (first two) years emphasises the understanding of the basic principles of economics and the acquisition of the quantitative skills in mathematics and statistics necessary for more in-depth study.

In the Sophister (third and fourth) years, there are only a few compulsory courses, allowing you to construct your own programme from a wide range of theory, applied and finance options.

Study abroad

Exchange agreements are in place with the University of Köln (Germany), Tilburg University (the Netherlands), the Institute d'Études Politiques (Sciences Po) (Paris), the ESCP/EAP (Paris), HEC (Paris), universities in Louvain, Belgium and Queensland, Australia. There is the possibility of completing your studies at either ESCP/EAP (Paris) or HEC (Paris) and graduating with a double degree from Trinity and whichever college you have studied at.

Career opportunities

Economics graduates in the past have gone into banking, stockbroking, investment analysis and the financial sector generally, accountancy and planning. Others have taken up policy advisory roles in the public service, in semi-state bodies, in the European institutions and with industry associations and economic and management consultancies. Other economics graduates are prominent in journalism, in business and in publishing. Many of our graduates who want to continue to study in Economics have followed postgraduate degrees at Trinity and at universities in the UK (e.g. Oxford, London School of Economics) and in the US (e.g. MIT, Harvard, Yale, Chicago).

A small number take up academic and teaching careers.

Further information

tcd.ie/Economics
Tel: + 353 1 896 1325

Course content

Junior Freshman (Year 1)	Senior Freshman (Year 2)	Junior Sophister (Year 3)	Senior Sophister (Year 4)
		select 3 from	**select either 2 or 4 from**
Introduction to economics	Intermediate economics	Economic analysis	Economic theory
Mathematics and statistics	Economy of Ireland	Monetary and welfare economics	The world economy
	Economics of public policy	Economics of less developed countries	Economics of food markets
	Mathematical and statistical methods	Investment analysis	Economics of securities markets
		Industrial economics	Transport economics
		Mathematical economics	Industrial organisation theory
		Econometrics	Quantitative methods
		Environmental and urban economics	Economics of human resources
			International economics
			Monetary thought and policy

Education

COURSE CODES:

CE001	**CHURCH OF IRELAND COLLEGE OF EDUCATION**
CM001/002	**COLÁISTE MHUIRE, MARINO**
FR001/002	**FROEBEL COLLEGE, SION HILL, BLACKROCK**

In addition to satisfying the matriculation requirements of the University (see pg 21) candidates must also satisfy the academic requirements of the Department of Education and Science for entrance to the course. Details of special entry requirements are available from each of the Colleges of Education.

See also Music education (TR009) pg 68.

What is the Bachelor in Education?

The degree of Bachelor in Education (B.Ed.) is a professional degree which is intended to provide for the academic and professional requirements of primary school teachers. The Bachelor in Education degree is provided in association with the Church of Ireland College of Education, Rathmines, the Froebel College of Education, Sion Hill, and Coláiste Mhuire, Marino. Students register both with the College of Education of their choice and with the University of Dublin, Trinity College and have full access to all Trinity's facilities.

An ordinary degree of B.Ed. is awarded at the end of three years. Suitably qualified students may register for a fourth year of university work. Graduates of these courses are recognised by the Department of Education and Science as trained teachers in accordance with Rule 157 of the Rules of National Schools.

Course content

The degree is an integrated course of study designed to equip student teachers with the range of knowledge and skills related to the profession of primary school teaching and its curriculum.

Courses taught in Trinity include: child psychology; language study; history of education; sociology of education; educational psychology; inclusive education; curriculum and assessment; philosophy of education.

Courses taught in the Colleges of Education include: 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), inclusive education and early childhood education.

School experience is central to the B.Ed. degree programme and there is a significant period of school-based practice designed to give students an opportunity to develop their practical skills of observation and teaching.

Further information

Church of Ireland College of Education
96 Upper Rathmines Road, Dublin 6.
www.cice.ie
Tel: (01) 4970033

Coláiste Mhuire Marino
Griffith Avenue, Dublin 9.
www.mie.ie
Tel: (01) 805 7700

Froebel College, Sion Hill
Blackrock, Co Dublin.
www.froebel.ie
Tel: (01) 288 8520

Law

COURSE CODE:	TR004
PLACES 2006:	79
POINTS 2005:	530

Why study law at Trinity?

Students of the highest calibre supported by a strong team of lecturers and professors study law at Trinity. The College is ideally situated close to the courts, the Oireachtas (the national Parliament) and government departments.

As Ireland's oldest Law School, Trinity is strongly committed to the service of society through education, research and public service activities. The commitment to rigorous legal scholarship has placed Trinity at the forefront of legal research in Ireland. In addition, Trinity is home to one of Ireland's leading periodicals, the Dublin University Law Journal, and to the Trinity College Law Review, published by the student members of the College's Law Society.

Is this the right course for me?

Law will appeal to you if you like to approach problems in a systematic, logical and inquiring fashion. Legal training requires precise and careful use of language, so you should possess good writing skills and a facility for articulate expression. A general interest in history and political developments will also be of advantage, as many legal subjects (such as constitutional law, the law of property and European Union law) cannot be fully appreciated without reference to their historical and political context.

Course overview

The first two years are given over to the study of core legal subjects, including law of property, criminal law, constitutional law, torts (civil wrongs), contract, and European Union law. Thereafter, the class breaks up into groups so that you can pursue your own developing interests. This makes for a close relationship between staff and students.

Law at Trinity is a four-year degree programme. It involves relatively few classroom hours, but you will need to spend a great deal of time working and researching in the library. Essays and other written work are assigned on a regular basis, and you will also be required to prepare in advance for seminars.

The Freshman years

Junior Freshman (first year) courses:

- **Torts**
  Topics covered include the major torts such as negligence, defamation and nuisance, but issues such as defences, limitation periods and the interaction between the law of torts and the constitution are also addressed.

- **Legal systems and methods**
  Designed to introduce you to important institutions and doctrines of the Irish and European legal systems, and to develop the necessary legal skills you will be required to read case law and interpret legal documents.

- **Constitutional law I**
  This involves the study of Irish constitutional law within a historical and comparative context. The differing objectives of distinct areas of this branch of law are stressed – from the principles of good government to the protection of constitutional rights. Constitutional evolution in Britain, Northern Ireland and the US is also outlined. Throughout, the role of the courts in the establishment of constitutional norms is emphasised.

- **Criminal law**
  Covers the definition of crime in Irish law; the rules of proof in a criminal trial; the constituent elements of offences; the mental states required for criminal offences; questions of causation; how criminal law deals with the issues of insanity, intoxication, mistake, duress and necessity; and the examination of certain selected offences – various forms of homicide, forms of assault, sexual offences such as rape, certain offences against property, such as theft; and offences involving deception.

Senior Freshman (second year) courses:

- **Contract**
  Contract is one of the core subjects of the common law of obligations. It involves analysis of (i) the legal principles behind the rules relating to the formulation of contracts (ii) the circumstances in which they will not come into existence or in which they cease to be effective, and (iii) relevant remedies.

- **Constitutional law II**
  Focuses on certain fundamental rights protected by the Constitution, notably those relating to the family, the right to life of the unborn, the right to die, the right to liberty, and the freedom of association, expression and assembly. The second half of the course examines aspects of administrative law and focuses on judicial review of administrative action.

- **Land law I**
  An introduction to the considerable body of common law, equitable principles and legislation which governs the various ways in which land may be acquired, held and alienated. It commences with an historical account of the evolution of land law, an understanding of which is

fundamental to an appreciation of the complex system in operation in Ireland today. The substantive areas dealt with include leases, rights of way, the use of land as security, and succession to the property of deceased persons.

- **European Union law**
  This course aims to provide an introduction to the law and institutions of the European Union, in particular to examine their origins and development. The first part of the course concentrates on constitutional issues, including the workings of the institutions and legal system. The second part of the course examines selected aspects of substantive law, including free movement of goods and persons and an introduction to EU Competition law.

The Sophister years

In each of the Junior and Senior Sophister (third and fourth) years you will select four subjects from a list of about twenty law subjects. The law subjects are advanced specialist subjects and they include: advanced European Union law; human rights; evidence; labour law; restitution; environmental law; equity; commercial law; civil and criminal procedure; conflict of laws; legal and economic aspects of competition policy; jurisprudence; intellectual property law; criminology; family law; public interest law; tax law; sport and the law; international law and company law.

Students may also study a broad curriculum subject in each sophister year. (see p.27 or tcd.ie/broad_curriculum)

Alternatively, in the final year you may select three optional subjects and write a dissertation on a selected topic.

Assessment

Assessment is by a combination of term assignments and written end-of-year examinations.

Study abroad

A limited number of places are available on EU funded exchange programmes at universities in Austria, Belgium, Finland, France, Germany, Italy, the Netherlands and Spain to students in the Junior Sophister (third) year. Optional language courses (see page 27) in the first two years must be undertaken should you wish to avail of this opportunity. There are also exchange programmes with a number of universities in North America.

Career opportunities

A law degree provides the ideal foundation for the aspiring solicitor or barrister. But law offers wider opportunities than professional practice alone, with many graduates finding employment in business, the financial services sector, and in public administration.

Law degrees and professional qualifications

No law degree entitles a person to practise law as a solicitor or barrister. If you wish to go on to obtain a professional qualification, the governing bodies for the profession require that you take certain specific subjects, although the particular requirements have varied from time to time.

If you are contemplating seeking a professional qualification as a barrister you should consult the Director of Education, King's Inns, Henrietta Street, Dublin 1, while prospective solicitors should consult the Director General, The Law Society, Blackhall Place, Dublin 7.

Separate requirements apply in Northern Ireland. Prospective barristers should consult the Under Treasurer, The Inn Court of Northern Ireland, Royal Courts of Justice, Belfast BT1 3JF, while prospective solicitors should consult the Secretary, the Incorporated Law Society of Northern Ireland, Law Society Houses, 90-106 Victoria Street, Belfast BT1 3ZJ.

In view of rapid changes relating to the rules of entry into professional study, students are advised to maintain regular contact with the relevant professional bodies so that they are aware of any new requirements coming on-stream.

Further information

tcd.ie/Law
Tel: + 353 1 896 1125

Law and French/German

COURSE CODES:	TR018 (French)	TR019 (German)
PLACES 2006:	12	12
POINTS 2005:	560	510
Special entry requirements		
Leaving Certificate	HC1	French (TR018)
	HC1	German (TR019)
Advanced GCE (A level)	Grade C	French (TR018)
	Grade C	German (TR019)

Overview

Law and French and Law and German are demanding programmes that give you the opportunity to learn about the law, language and culture of one of the principal continental civil law jurisdictions, in addition to receiving a full grounding in Irish and general EU law. Far more is involved than simply attaching a language component to a law degree. Students study French or German law, both constitutional and civil, in their first two years. These law subjects are taught and examined through the relevant language. The language component of each programme is integrated so that language skills are developed in the context of studying the general, as well as the specifically legal, culture of the country concerned.

Each programme is taught over four years with a compulsory year abroad.

Is this the right course for you?

In addition to a desire to study law, you will need a specific and strong interest in the general culture, legal, political, economic and sociological make-up of either France or Germany. You should also be willing and have the ability to become fluent in the relevant language.

Course content

In the Freshman (first two) years you will study a variety of legal subjects including legal systems and methods, constitutional law, torts, criminal law, contract, land law and the constitutional and civil law of your chosen jurisdiction. Alongside this you will take an integrated course on language and civilisation covering aspects of sociology, legal systems and politics. Lectures, tutorials and language laboratory work are all involved.

Junior Freshman courses

- Torts*
- Legal systems and methods*
- Constitutional law I*
- French or German language
- French or German civilisation
- Landeskunde and German constitutional law or French constitutional law

Senior Freshman courses

- Criminal law*
- Land law I*
- Contract*
- French or German civil law

*See pg 86 for course details.

The Sophister years

The Junior Sophister (third) year is spent studying legal or related subjects in a French or German university. For students of Law and French this will be at the universities of Paris II – Panthéon-Assas, Poitiers, Bordeaux IV or Sciences Po, Paris. For students of Law and German this will be at the universities of Wurzburg, Hamburg, Mainz, Humboldt (Berlin) or Erlangen-Nurnberg in Germany, or at the University of Linz in Austria. The results obtained studying abroad form a substantial part of your final degree grades.

In the Senior Sophister (fourth) year, you select four legal subjects from about twenty options (though if you wish to practice professionally as a solicitor or barrister the range of options is significantly restricted). In addition, you will engage in language and oral work and project/report writing. Alternatively, you may study one of either a Broad Curriculum subject (see p. 27 or **tcd.ie/Broad_Curriculum**) or a Senior Sophister French/German topic, or write a dissertation in French or German on an approved aspect of French or German law.

Assessment

A combination of assignments and aural, oral and written examinations is used. There is a strong element of continuous assessment in language and French or German law subjects.

Career opportunities

The increasing Europeanisation of legal practice means that graduates of the law and a language degree programme have much to contribute to the legal and other professions in Ireland, as well as enjoying career opportunities in Europe.

Law degrees and professional qualifications

No law degree entitles a person to practise law as a solicitor or barrister. If you wish to go on to obtain a professional qualification, the governing bodies for the profession require that you take certain specific subjects, although the particular requirements have varied from time to time.

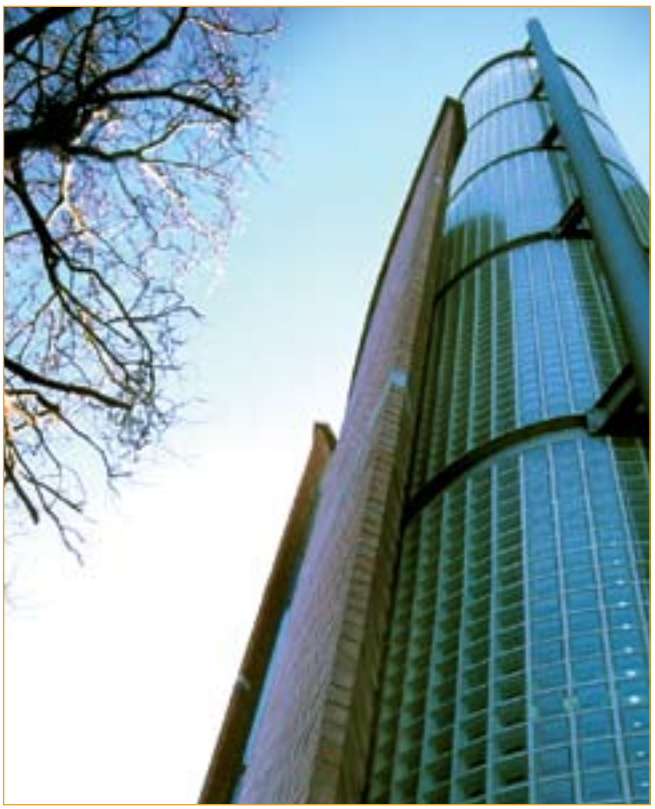
If you are contemplating seeking a professional qualification as a barrister you should consult the Director of Education, King's Inns, Henrietta Street, Dublin 1, while prospective solicitors should consult the Director General, The Law Society, Blackhall Place, Dublin 7.

Separate requirements apply in Northern Ireland. Prospective barristers should consult the Under Treasurer, The Inn Court of Northern Ireland, Royal Courts of Justice, Belfast BT1 3JF, while prospective solicitors should consult the Secretary, the Incorporated Law Society of Northern Ireland, Law Society Houses, 90-106 Victoria Street, Belfast BT1 3ZJ.

In view of rapid changes relating to the rules of entry into professional study, students are advised to maintain regular contact with the relevant professional bodies so that they are aware of any new requirements coming on-stream.

Further information

tcd.ie/Law
Tel: + 353 1 896 1125



Philosophy

COURSE CODES:	**TR005**	**TR001 (TSM)**
PLACES 2006:	**17**	**43**
POINTS 2005:	**460**	**475**

TR005 – Philosophy is a single honor course where philosophy is read almost exclusively for four years.

TR001 – Philosophy (TSM) is a joint honors programme. Philosophy can be combined with one other subject. Usually both subjects are studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

Single honor and TSM students follow the same courses. However, while TSM students cover all the principal areas of philosophy, the workload is half that of the single honor programme.

For subjects that combine with philosophy see p. 31.

See also:

TR014 – Philosophy and political science (p. 90).

What is philosophy?

Although philosophy is not taught at second level, you may already have come into contact with it. 'Is there any good reason to believe in God?', 'Is democracy really the best form of government?', or 'To what extent can we know the way things really are?' are just three examples of the sorts of questions philosophers try to answer.

This course aims is to allow you to develop the ability to reason lucidly, express views clearly and support claims coherently. You will also be introduced to the important ideas of the ancient and modern philosophers who have helped to shape western culture.

Is this the right course for you?

As a participant on this course you will be expected to develop professional precision in your thinking. You must be prepared to question your own basic assumptions and to learn how to articulate and support points of view carefully. Furthermore, you must be willing to develop originality and creativity in your way of thinking and to use that skill to contribute to sophisticated discussion regarding morality, knowledge, reality, politics, aesthetics, and religion.

Course content

The course moves from a general introductory year through to in-depth specialisations in the final year. Students follow set courses in the Freshman (first two) years but there is a greater degree of choice and specialisation thereafter. In addition to lectures in the first two years, there are regular tutorials which allow for more informal contact with teaching staff in a small group setting. In the Senior Sophister (fourth) year, staff and visiting scholars teach their current research projects in small group seminars and you will be required to write a thesis as part of your assessment.

The Freshman years

Junior Freshman (first year) students take two courses:

- Central problems of philosophy
- History of philosophy (ancient to early modern)

You will be introduced to various areas of philosophy, including moral and political philosophy, the theory of knowledge, the philosophy of mind, philosophy of religion, classical texts in Greek, medieval and early modern philosophy.

Single honor students have eight hours of lectures and two hours of tutorial per week.

TSM students and students reading philosophy and political science have four hours of philosophy lectures and a one hour philosophy tutorial per week.

Senior Freshman (second) year courses include:

- Logic
- The philosophy of science
- History of philosophy from Kant through contemporary continental and analytical philosophy

The works of Hobbes, Spinoza, Locke, Berkeley, Kant, Hegel, Schopenhauer, Nietzsche, James, Popper and Arendt will also be studied.

Single honor students have six hours of lectures and two hours of tutorial per week.

TSM students and students reading philosophy and political science have four hours of philosophy lectures and a one-hour philosophy tutorial per week.

The Sophister years

In the Junior Sophister (third) year you will choose from a wide range of options. These include:

- Philosophy of mind
- Psychological philosophy
- Ancient philosophy
- Existentialism and psychoanalysis
- Moral and political philosophy
- Philosophy of religion
- Philosophy of language
- Epistemology and metaphysics
- Logic and philosophy

In the Senior Sophister (fourth) year, you will research and write an extended thesis and attend advanced seminars covering your chosen areas of research.

Assessment

Written examinations are combined with essays, logic tests and logic exercises throughout the year. In your final year you must also research and write a thesis.

Did you know?

George Berkeley (1685-1753), who has a permanent place in any list of the great philosophers, attended Trinity College. In addition, the political philosopher, Edmund Burke (1729-1797), inaugurated the College debating society while still a student at Trinity.

Career opportunities

In the recent past graduates of philosophy have worked in areas as diverse as accountancy, academic teaching, journalism, law, T.V. reporting and research, film making, banking, computing and advertising. Each year some graduates also opt to pursue a research career beginning with postgraduate study in Ireland or abroad.

Further information

tcd.ie/Philosophy
Tel: + 353 1 896 1529

Philosophy and political science

COURSE CODE: TR014

PLACES 2006: 10

POINTS 2005: 500

Political science can be studied in one of two special joint honors programmes: History and political science – TR012 (p. 56) or Philosophy and political science.

Alternatively, you can study political science through the general entry BESS – TR081 programme. After a common first year students select 6 subjects in second year. At the end of the second year students may opt to specialise in political science for the final two years or to combine political science with one of business studies, economics or sociology. See p. 79 for details.

See also:

TR001: TSM (joint honors programme) Philosophy in combination with one other subject. For subjects that combine with philosophy see p. 31.

TR005: Single honor in philosophy (p. 88)

TR012: History and political science (p. 56)

Course overview

The many direct and indirect interdisciplinary links make philosophy and political science an attractive and logical combination, with the study of each subject adding depth to the study of the other. As a student on this programme, you will take both subjects for the first three years. In your fourth year you will have the option to concentrate exclusively on either subject, or continue with both.

Is this the right course for you?

Yes, if you are willing to develop an original and creative way of thinking and are open to learning more about the political and economic development of societies.

Assessment

A combination of essays, assignments and end-of-year examinations is used.

Career opportunities

Philosophy and political science is a particularly useful preparation if you want to become involved in public service, public affairs or the media, but the skills you attain can also be applied in many areas of research, management and communication.

Further information

tcd.ie/Philosophy
Tel: + 353 1 896 1529

tcd.ie/Political_Science
Tel: + 353 1 896 1651

Course content

Philosophy component:	Political science component:
Courses in philosophy are designed to aid your philosophical and logical analytical ability and to introduce you to the history and main themes of philosophy. There are a wide variety of subject options available, allowing you to specialise in areas of particular interest to you.	In political science, the work of the first two years is designed to provide you with a systematic foundation in the subject.
Junior Freshman (first year) courses: ■ Central problems in philosophy, including introductions to moral and political philosophy, theory of knowledge, and philosophy of religion ■ History of philosophy from ancient to early modern, including works of Plato, Aristotle, Aquinas, Descartes, Spinoza, Leibniz, Locke, Berkeley, and Hume	**Junior Freshman (first year) courses:** ■ Introduction to political science ■ Introduction to sociology ■ Introduction to economic policy
Senior Freshmen (second year) courses: ■ Philosophy of science and formal and informal logic ■ History of philosophy from German idealism through contemporary continental and analytical philosophy, including works of Kant, Hegel, Schopenhauer, Nietzsche, Husserl, Heidegger, Russell, Ayer, and Quine	**Senior Freshman (second year) courses:** ■ History of political thought ■ Russian and East European politics ■ West European politics
In the Junior Sophister (third) year you will choose from a wide range of options, including philosophy of mind, ancient philosophy, existentialism and psychoanalysis, moral and political philosophy, philosophy of religion, philosophy of language, epistemology and metaphysics, and logic and philosophy. In the Senior Sophister (fourth) year, you will research and write an extended thesis and attend advanced seminars covering your chosen areas of research.	In the Sophister (third and fourth) years, you choose to concentrate on particular aspects of the subject including: ■ Irish politics ■ American politics ■ East or West European politics ■ Contemporary political theories ■ Theoretical analysis of political parties ■ Political behaviour ■ Nationalism ■ The politics of international relations

Political science

COURSE CODES:	TR081	TR012	TR014
PLACES 2006:	216	14	10
POINTS 2005:	470	545	500

Political science can be studied in one of two special joint honors programmes: History and political science – TR012 (pg 56) or Philosophy and political science (pg 90).

Alternatively, you can study political science through the general entry BESS – TR081 programme. After a common first year students select 6 subjects in second year. At the end of the second year students may opt to specialise in political science only for the final two years or to combine political science with one of business studies, economics or sociology. See pg 79 for details.

Political science at Trinity aims to familiarise you with various aspects of politics in the modern world and also to give you skills and analytical tools that can be applied in a range of activities. Topical issues such as how democracy works, its advantages over dictatorship, and the pros and cons of different voting systems.

Further information

tcd.ie/Political_Science
Tel: + 353 1 896 1651

Psychology

COURSE CODES:	TR006	TR001 (TSM)
PLACES 2006:	31	17
POINTS 2005:	545	565

TR006 – Psychology is as a single honor degree where psychology is read almost exclusively for four years.

TR001 – Psychology (TSM) is a joint honors programme. Psychology is combined with one other subject. Both subjects are studied equally for the first three years and one subject only is studied in the fourth and final year.

Single honor and TSM students follow the same courses. However, while TSM students cover all the principal areas of psychology, the workload is less extensive than that of the single honor programme.

For subjects that combine with psychology see p. 31.

Overview

Each academic year requires a minimum of 1,200 hours of student time. During lecture term, approximately 12 hours per week are spent in supervised study such as lectures, practicals and tutorials.

What is psychology?

There are five thematic areas in psychology:

- Biological
- Cognitive
- Developmental
- Personality and individual differences
- Social psychology

Psychology is the scientific study of human behaviour and mental processes. Although classified as an arts course, psychology has many of the features of a science course – practical work, statistical description and analysis of data and courses on the underlying physiology of the human brain, for instance. These are in addition to the more familiar psychological topics such as human development, perception, learning, motivation, cognitive processes, individual differences and social psychology.

Psychology should not be confused with psychoanalysis, which is a particular approach to the human mind and to psychotherapy, developed originally by Freud. Psychoanalysis is only one part of the history of the huge field of psychology. If you wish to pursue self-exploration or personal adjustment, an academic course in psychology is not the path to take.

Did you know?

As well as offering high quality teaching, Psychology collaborates with a number of other disciplines through the Children's Research Centre and the new Neuroscience Institute, both at Trinity.

See **tcd.ie/psychology**

Is this the right course for you?

Psychology is a rigorous, fascinating and demanding field of the life sciences. If you are interested in the factors influencing human thinking, feeling and behaving, as individuals and in groups, you will enjoy this course.

Course overview

The course is designed to develop a wide knowledge of the concepts, principles, theories and research methods of contemporary psychology; to develop skills of analysis and synthesis, research design, statistical description and evaluation, problem-solving and computer use; to provide practice in the design, execution, reporting and assessment of research and to develop competence in group work, communication and presentation skills and self-assessment. This preparation is designed to cultivate a high level of competence in scholarship and research, enabling the successful graduate to proceed directly to advanced postgraduate work, professional training or a productive career.

The Freshman years

The Junior and Senior Freshman (first and second) years provide a broad foundation on which more advanced course work is built in the Sophister years (three and four). In addition there is a practicals, methodology and statistics course which develops research skills in a systematic fashion.

Junior Freshman (first year) courses

- Practicals, methodology and statistics
- Introduction to psychology
- Personality and individual differences
- Fundamentals of neuroscience and behaviour
- Cognitive psychology
- Evolutionary psychology
- Psychological disorder

TSM students take the first four courses

Single honor students take all courses.

Senior Freshman (second year) courses

- Practicals, methodology and statistics
- Developmental psychology
- Personality and individual differences
- Fundamentals of neuroscience and behaviour
- Cognitive psychology
- Evolutionary psychology

TSM students take the first four courses

Single honor students take all courses and in addition select a course from the Broad Curriculum options (see pg 27 or **tcd.ie/Broad_Curriculum**).

Practicals, methodology & statistics course

The practicals course covers the methodology and statistical analysis of psychological research and runs throughout your first two years. It will enable you to understand the different research methodologies (qualitative and quantitative) upon which psychology is based and will prepare you for planning, conducting and communicating your own research. Each of the other courses contributes to the practicals course, so you get hands-on experience of carrying out different types of research. For example, in conjunction with developmental psychology, you may be asked to conduct an observational study task, while the neuroscience and behaviour component might request that you record physiological measures under different task conditions. Other practicals concentrate on statistical description and analysis and key research-related skills, such as literature searching.

Tutorial programme

The tutorial programme runs through part of the Junior and Senior Freshman (first and second) years. You will be assigned to a small group of three or four people and will meet regularly with your tutor. The focus here is to build the skills required to write essays, to develop an attitude of scepticism and to develop independent, critical thinking.

The Sophister years

By the Junior Sophister (third) year you will have identified areas within psychology that are of particular interest to you and will have the opportunity to develop these interests by choosing courses from a series of advanced course options. These optional courses will allow you to gain a deeper understanding of the various branches of psychology and the different ways in which research is carried out. The courses you select may also help you to make decisions about your future career, if it is to be in psychology.

TSM students who finish psychology in third year take five options in the Junior Sophister (third) year.

Single honor students and TSM students majoring in psychology take four options in each of the Junior and Senior Sophister (3rd and 4th) years. On completion students must have taken one module from each of the five thematic areas. Single honor students take an additional course in personal and career development and an advanced practicals, methodology and statistics course.

BIOLOGICAL Neuropsychiatry, development and ageing Behavioural neuroscience Memory, synaptic plasticity and the brain Clinical and experimental neuropsychology Neuroimaging of cognitive functioning Behaviour analysis Executive functions and working memory	**COGNITIVE** Rationality and reasoning Creativity and imagination Memory, synaptic plasticity and the brain Cross-modal cognition Human factors Neuroimaging of cognitive functioning Executive functions and working memory
SOCIAL Culture and health Forensic psychology Political psychology Language and language disorders Organisational psychology Human sexuality Qualitative research methods	**PERSONALITY AND INDIVIDUAL DIFFERENCES** Clinical cases Advanced individual differences Embodiment Human factors Human sexuality Health psychology Clinical psychology and people with intellectual disability
DEVELOPMENTAL Child development and family relationships Neuropsychiatry, development and ageing Developmental psychopathology Qualitative research methods Language and language disorders The social self: theory and measurement	**TR006 – single honor psychology students also take two additional courses:** Personal and career development Advanced practicals, methodology and statistics

As a Junior Sophister (third year) student you will carry out a group research project on an important community-based psychological issue. This will give you experience of working as a team member, of working with a range of research methodologies in psychology, and of presenting psychological research. A series of seminars in the Junior Sophister year in which staff talk directly about their own research gives you a first-hand account of the research process.

In the Senior Sophister (final year), a large part of your workload involves carrying out an independent research project under the supervision of a member of staff. Typically, the topic you choose to investigate will coincide with your supervisor's own research work, giving you all the benefits and support of an active and accessible research group. Many students report that this project, while challenging, is one of the most rewarding parts of the course.

Assessment

A combination of end-of-year written examinations and continuous assessment is used. In your final year, you will also submit a report of your research project.

Career opportunities

Approximately 50% of psychology graduates proceed to a career in professional psychology through professional training or higher education in areas related to psychology. However, the advanced understanding of human behaviour and experience and the wide range of skills developed during the course have allowed students to enter many professions, ranging from management, marketing, advertising and accountancy, to journalism, broadcast media, teaching and recruitment.

Psychology degree and professional qualifications

Both courses are designed to meet the requirements of the professional psychological body (the Psychological Society of Ireland). The single honor degree and the TSM degree (where the student majors in psychology) both confer eligibility for graduate membership of the Psychological Society of Ireland and the British Psychological Society. They also meet the requirements for the graduate basis for registration of the British Psychological Society. TSM students for whom psychology is the minor subject (studied for only three years) are not eligible for graduate membership of either Society.

Progression into the profession of psychology, however, requires further training at postgraduate level. For clinical psychology this typically lasts for 3 years, for counselling and health psychology 2 years and for occupational psychology 1 year.

Further information

tcd.ie/Psychology
Tel: + 353 1 896 1886

Sociology

COURSE CODES:	TR081	TR001 (TSM)
PLACES 2006:	216	59
POINTS 2005:	470	450

Sociology can be studied through the general faculty entry BESS (TR081) degree. After a common first year students select 6 subjects in second year. At the end of the second year students may opt to specialise in sociology for the final two years or to combine sociology with either business studies or political science. For details see pg 79.

Sociology can also be studied in combination with one other subject as part of the joint honors two-subject moderatorship (TSM) programme (TR001). Sociology can be combined with Economics ONLY in the TSM programme, and NOT through the BESS degree.

Both subjects are studied for three years and usually one subject only is studied in the fourth and final year.

For subjects that combine with sociology see pg 31.

Thirdly, sociology can be studied as part of a special joint honour programme combining Sociology and Social Policy (TR083)(see pg 96)

What is sociology?

Sociology is the systematic study of all aspects of human society. It is particularly interested in understanding social change, new social institutions and ways of life. Sociology at Trinity provides courses on a range of subjects including work and employment, family, gender and ethnicity, food and the environment, development and globalisation, organisations and management, health and healing, language and popular culture.

Is it the right course for you?

If you are interested in human society and the social challenges facing Ireland, Europe and the world, then you should study sociology.

Course overview

The sociology course at Trinity has several important features.

First, there is a commitment to provide students with the necessary analytical capacities and practical skills to both understand the social world and find rewarding employment within it. The Junior Freshman (first) year courses introduce students to key ideas and theories in sociology. Second year deepens understanding of how sociologists analyse social issues, while introducing students to a wide range of research skills from social surveys to interviews. Further emphasis on advanced analysis, research and presentation skills is provided in the Sophister (third and fourth) years, culminating in the opportunity for students to write a research dissertation on a subject of their choice.

Second, the sociology course has a broad focus that expands from Ireland to Europe and the world beyond. Many courses examine elements of European society, compare developments in Ireland with those elsewhere in Europe, or assess the process of globalisation and its impact in Ireland and elsewhere. The world beyond Europe and North America is also considered.

Third, the teaching programme draws directly from the wide-ranging research interests of staff members. These include the growth of environmentalism as a social and political movement, the different ways in which women and men are shaped by and contribute to phenomena such as pop music and TV 'soaps', the different routes to top management in different European countries, transformations in the contemporary family, the small scale interactions of everyday working life, as well as ethnic and national identities in Ireland, North and South.

Overall this range of courses gives students a firm basis of analytical and social research skills of use in later study or working life.

Studying sociology within TSM (TR001) allows you to combine sociology with one from a range of other subjects. The two subjects are taught as separate disciplines, but TSM degrees allow you to study human society from a range of different perspectives including economics, geography, history, English, languages or the performing arts, as well as sociology as a social science.

Course content

Year one:

- Introduction to sociology
- Introduction to economic policy
- Introduction to political science

Year two:

- Introduction to social research
- European societies
- The sociological imagination

In the Junior Sophister (third) year you will take a core course in social theory and select two of:

- Culture and society
- Globalisation and development
- Themes in sociological enquiry

- Researching society

If you elect to study sociology in the Senior Sophister (fourth) year you will take two core courses – social theory and researching society – and select one of:

- Culture and society
- Globalisation and development
- Themes in sociological enquiry

You will also prepare (in third year) and complete (in final year) a research dissertation on a sociological topic of your own choosing.

Study abroad

Students may participate in SOCRATES exchanges with universities in France (Lille), Italy (Trento), Germany (Tübingen), Sweden (Umea), Finland (Turku) and Denmark (Copenhagen). The universities of Umea, Turku and Copenhagen teach through English; the others in their home languages.

Career opportunities

A degree in sociology is particularly relevant if you are hoping to pursue a career in the public service, community development, or in social research in statutory or voluntary social service organisations. Recent graduates are working for organisations as diverse as Goodbody Stockbrokers, the ESRI, the Department of Foreign Affairs and Enterprise Ireland. Careers range from industrial relations to marketing and from teaching to tourism.

Further information

tcd.ie/Sociology
Tel: + 353 1 896 1871

Sociology and social policy

COURSE CODE:	**TR083**
PLACES 2006:	**20**
POINTS 2005:	**455**

What is sociology and social policy?

Sociology and social policy combines the study of social theory, social policy and social research. The programme aims to give you a thorough training in the systematic study of society and its social problems.

Is this course right for you?

This course demands both academic and vocational qualities. It is particularly relevant to students intending to pursue a career in management, planning or evaluation within the social services and both social and public policy areas.

Course content

The subjects studied include general social science disciplines such as economics and politics, and specialist areas such as family policy, crime and poverty. The Freshman (first two) years are more general and foundational in nature, while the Sophister years (three and four) will focus more specifically on sociology and social policy. Teaching methods include lectures, seminars and group project work.

The Freshman years

In the first and second years you will take introductory courses in economics, politics, social policy, sociology, statistics, and law. You may also study either French or German as an optional subject. The numbers admitted to language courses are limited, with places determined on the basis of the grade achieved in the Leaving Certificate (or equivalent) examination.

The Senior Freshman (second) year places greater emphasis on the areas of social policy and sociology, as well as the introduction of social research methods. You also have the choice of taking a complementary subject, such as psychology, or may continue your study of French or German.

The Sophister years

The choice of subjects available in the Sophister years (three and four) typically include:

- Social security
- Race and ethnic identity
- Comparative welfare systems
- Crime and punishment
- Issues for the Developing World

- Child welfare
- Relations to nature and the environment
- Popular culture
- Work and management
- Use of language
- Gender and the position of women in society

Many of these courses deal specifically with Ireland and with European society. In the final year you will research and write a dissertation on a topic of your choice.

Assessment

A combination of continuous assessment and written examinations will generally be used.

Career opportunities

The range of employment opportunities in the area of social and public policy, planning and implementation is expanding all the time. Sociology and social policy is a particularly relevant degree for those interested in pursuing a career in the formulation of policy in the public service, community development and voluntary/non-profit sectors. The course provides a solid foundation for specialist postgraduate courses, including in the areas of social work and social research.

Further information

Website: **http://www.socialwork-socialpolicy.tcd.ie/** and **http://www.tcd.ie/Sociology/**

Social studies (social work)

COURSE CODE:	**TR084**
PLACES 2006:	**30**
POINTS 2005:	**480**

Course overview

This four-year programme offers students the advantage of combining an honors degree in social studies (B.S.S.) with the Irish professional social work qualification, the National Qualification in Social Work (NQSW). It is an intensive programme, aiming to produce reflective and proactive social workers who can make a significant contribution in any area of the social services.

Am I suited to this course?

Social studies is the right course for you if you know you want to become a social worker and believe you have the personal attributes and motivation necessary for this line of work.

Course content

The degree is designed as a pyramid, introducing you to a wide range of social science subjects in the Junior Freshman (first) year, and increasing the number of social work subjects in the following three years. Teaching methods are varied and interactive.

The Freshman years

Junior Freshman (first year) subjects include introductions to social work, psychology, social policy, sociology, economic policy and political science. Optional courses are offered in either French or German for students with appropriate Leaving Certificate, or equivalent, qualifications.

Social work theory and practice, law for social workers, social policy, psychology and social research form the core subjects of the Senior Freshman (second) year. In addition, you can either continue with your optional language studies or choose one elective course from sociology, politics, economics or one of the Broad Curriculum courses (see p. 27 or **www.tcd.ie/Broad_Curriculum**).

The Sophister years

Junior and Senior Sophister (third and fourth) year subjects include:

- Social work theory and practice
- Family and child care studies
- Social policy

- Sociology
- Mental health
- Equality issues
- Groupwork
- Human rights law

An overview of international social work is also offered in second and third years.

Assessment

Assessment includes essays, projects and examinations and work placement performance.

Professional practice

In each of the four years you will undertake a placement in a different social service agency under the supervision of an experienced practitioner. These placements provide you with practice experience and an opportunity to develop and apply the skills and knowledge acquired in Trinity. Placements are arranged in settings such as health service community care teams, hospital social work departments, child and family centres, probation and welfare service, and community development projects. They account for about 50% of your course time (220 days) over the four years and take place partly during summer vacations and partly during term time. You will be supported in your professional development by an individual social work course tutor who will meet with you regularly and visit you on placement from second year on.

Career opportunities

As a social studies graduate of the University of Dublin, you are eligible for immediate employment as a professionally qualified social worker in Ireland and internationally.

Further information

Email **social.studies@tcd.ie** or visit **www.socialwork-socialpolicy.tcd.ie**

Bachelor in Business and Information Technology (evening attendance)

Application procedure

This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 30 June 2007 for entry to the academic year commencing in October 2007.

Application forms are available from the Admissions Office **(tcd.ie/Admissions)**

The Government's Free Fees Initiative does NOT cover this course. All students registered for the B.Sc. in Business and Information Technology are required to pay tuition fees.

Course overview

This honors degree is suitable for business applicants wishing to explore, understand and manage the business value of Information Technology across a range of disciplines through increasing their business management and information technology management skills. This degree is designed to progress careers and to bring a greater information technology understanding to a range of business professionals and a greater appreciation of business fundamentals to IT specialists. This four year degree can be entered at 1st, 2nd or 3rd year and is a popular degree building business management skills and information technology knowledge.

Course content

The programme is divided into two broad areas of study business management and information technology. Courses in the business management stream build an understanding of the nature of organisations and their management from functional and strategic perspectives. Particular emphasis is placed on the role and management of information as an integrating force in the pursuit of competitive strategies. Courses in the IT stream build an in-depth knowledge of computer and communications technologies and the contemporary challenges.

The degree, which is delivered jointly by the Department of Computer Science and Statistics and the School of Business Studies, is taught on three evening a week over twenty-four weeks of the year.

Further information and application forms

Please log onto our website: **www.cs.tcd.ie/courses/bscbit**

Diploma in Addiction Studies

Application Procedure

This is not a CAO course. Students wishing to apply for admission are required to apply directly to the University. Completed applications must be returned in mid-April 2007 for entry to the academic year commencing in October 2007.

Application Forms available from:

Diploma in Addiction Studies,
Room 3063, Arts and Social Sciences Building,
Trinity College, Dublin 2.
Tel: (01) 896 1163
Email: addiction.studies@tcd.ie

The Government's Free Fees Initiative does NOT cover this course. All students registered for the Diploma in Addiction Studies are required to pay tuition fees.

This one-year course, run with the approval of the Minister for Health and the Department of Health and Children, consists of two terms of academic work together with a ten-week fieldwork placement.

Applications will be considered from those whose work brings them into contact with the problem of addiction – e.g. counsellors, social workers, probation officers, doctors, nurses and teachers for example – or from those who are involved in the administration of services or the formulation of policy in this area.

Course content

The academic aspect of this course includes teaching on a wide variety of subject areas relevant to addiction including:

- Psychology
- Pharmacology
- Sociology
- Psychiatry
- Social policy
- Law
- Social work

Skills training will focus in particular on the development of students' skills in group work and individual and family counselling. It will be based partly on classroom exercises using video equipment and partly on field experience. Specific teaching and project work will be organised for students whose interests lie in administrative and policy areas.

Further information

Visit **tcd.ie/Social_Studies/ugdip.html**

Faculty of Engineering and Systems Sciences

Undergraduate programmes

TR010/TR011/TR013 Computer science, linguistics and a language (French, German, Irish)

TR032 Engineering with specialisations in civil, structural and environmental engineering, computer engineering, electronic engineering, electronic and computer engineering (joint programme), mechanical and manufacturing engineering

TR033 Computer science

TR034 Management science and information systems studies (MSISS)

TR038 Engineering with management

Direct entry (non-CAO) Programme in Information systems (diploma and degree levels)

Why study with us?

The Faculty offers a range of full-time and part-time courses that will suit both school-leavers and students who would prefer to study while they are in full-time employment.

The common feature of all programmes is that they integrate the study of mathematical and scientific subjects with their application to practical problems. If you enjoy the challenge of developing rational, scientifically-based approaches to the analysis and solution of real-world problems, then you should study with us.

Engineering is perhaps the profession where this integrated approach is the strongest. Today, engineering is a much sought after qualification for careers in industries as varied as construction and manufacturing, IT and telecommunications, finance and teaching. While engineering has traditionally had a strong hardware focus, modern engineering also involves a great deal of computing. Trinity's 'Engineering Science' approach gives you a general engineering background in the first two years then allows you to choose one of five specialisations for the final two years.

Trinity's computer science and IT courses use the same approach: combining a broad range of mathematical and computer science topics with a strong practical problem-solving component.

The programme offered in management science and information systems studies similarly combines a broad-based, analytical, mathematical foundation, including management science, computing and statistics, with both business and information technology.

Whichever course you choose, you can look forward to excellent modern facilities and access to one of the finest libraries in the world. On graduation you will be fully equipped to meet the challenges and opportunities of your working life ahead.

Further information

Visit **www.tcd.ie/Engineering/about**

Bachelor in Engineering (B.A.I.) (common entry programme)

COURSE CODE:	**TR032**	
PLACES 2006:	**175**	
POINTS 2005:	**445**	
Special entry requirements		
Leaving Certificate	HC3	Mathematics
Advanced GCE (A) level	Grade C	Mathematics

What is engineering?

Engineering is about using mathematical and scientific principles together with analytical and design skills to devise new solutions to practical problems. These problems might be related to the physical infrastructure (roads, buildings, machines, etc.) or to the information infrastructure (telecommunications, computers, electronics, etc.) of the environment in which we live.

Is this the right course for you?

Engineering is a constantly evolving profession. As an engineer, you will need to be adaptable both to the rapid development of new ideas and technology and to the shifting requirements of industry and society. Ideally you will be a good communicator and will also be capable of working as part of a team.

Course overview

The B.A.I. degree programme is based on two years of general engineering, providing students with a firm grounding in the principles common to all disciplines, and two years of specialisation. Graduates are professionally accredited engineers with both a broad-based understanding of the whole discipline and a detailed knowledge of their chosen specialist area. The aim is that graduates will be able to continuously train themselves, to adapt and move into related or newly emerging areas as their careers develop after graduation.

The Freshman years

All students follow a common programme for the first two years. The Junior Freshman (first) year comprises introductory courses in subjects such as engineering science, mathematics, computer science, graphics and computer-aided engineering.

In the Senior Freshman (second) year, students take a set of foundation courses and complete a basic design project in each of the specialist degree areas on offer. This allows you to explore all the possibilities open to you in advance of making your final decision about what specialism to concentrate on.

What happens next?

At the end of the Senior Freshman (second) year you choose one of the five specialist areas:

- Civil, structural and environmental engineering
- Computer engineering
- Electronic engineering
- Electronic and computer engineering (joint programme)
- Mechanical and manufacturing engineering

Courses in the Sophister (third and fourth) years aim to broaden and deepen your knowledge and understanding of the specialism you have chosen to follow to degree level.

Subjects are studied in much greater detail and students undertake real-life, practical projects. If you choose civil, structural and environmental engineering you could end up testing the pre-cast concrete used to build the Paddington to Heathrow railway; if you choose computer engineering, you might find yourself building a microprocessor system.

A substantial design project will be part of your final year assessment in each discipline.

Assessment

Assessment in each of the first two years is by means of written examination, primarily at the end of the last term combined with continuous assessment of coursework during the year. Typically, end of year examinations contribute at least 50% towards your grade in each subject.

Career opportunities

The B.A.I. is a professional degree accredited by the Institution of Engineers of Ireland (IEI) and is recognised by a large number of engineering institutions outside Ireland. It will be your gateway to a wide and varying career path.

Further information

Find out more at **tcd.ie/Engineering/about**

Double qualification

Suitably qualified students may, at the end of their second year, apply for transfer to the double qualification programme, run jointly with the INSA de Lyon, a French Engineering School.

Instruction at INSA de Lyon is through French and students will be required to have a high standard of language competence before participating on the programme.

Programme outline:

Year	**1** Junior Freshman	**2** Senior Freshman	**3** Junior Sophister	**4** Senior Sophister	**5**
College	Trinity College	Trinity College	INSA	Trinity College	INSA
Award				BAI from University of Dublin	Diplôme from INSA

At the end of a five-year programme TCD students may receive, in addition to the B.A.I., the Diplôme de l'INSA, which confers full professional accreditation in France.

Engineering at a glance

All students in TR032 follow common first and second years.
At the end of the second year you will select one of five alternative degrees as outlined below.

Junior Freshman (first) year	Senior Freshman (second) year	Sophister (third & fourth) years
Lectures – 16 hours Tutorials – 5 hours Laboratory work – 6 hours	Lectures – 16 hours Tutorials – 5 hours Laboratory work – 4 hours	
Engineering mathematics I and II Including calculus, sequences and series, finite mathematics, vectors, linear algebra, complex numbers, probability and ordinary differential equations	**Engineering mathematics III and IV** Partial differentiation; Laplace transform; Fourier series and transform; probability theory; vector calculus; linear algebra; optimisation and graph theory	**Engineering mathematics**
Computer science I Introduction to computer systems and software; problem solving, algorithms and programming	**Computer science II** Basic concepts of computer programming; object-oriented programming; classic data structures; representation and algorithms	**Management for engineers**
Physics An introduction to the basic concepts and laws of physics; mechanics, sound, heat, electricity and magnetism, light; modern physics	**Solids and structures** Mechanics of solids – properties of solids, stress and strain, failure criteria; applications Structures – pin-jointed structures; analysis of beams; design of beams	And select one of:
Chemistry General chemistry; physical and organic chemistry	**Thermo-fluids** Fluid mechanics – principles of fluid motion; laminar and turbulent flows; pipe flows; free surface flows Thermodynamics – mechanical work processes of closed systems; mass and energy conservation; heat engines; the second law of thermodynamics	**Civil, structural and environmental engineering** pg 104
Engineering science I Mechanics – basic statics and dynamics; stress analysis Electricity and Magnetism – basic electric circuits; magnetism and DC machines	**Electronics** Analogue electronics – discrete analogue electronics; linear integrated circuits; analogue/digital conversions Digital electronics – combinational logic; sequential logic; digital circuits	**Mechanical and manufacturing engineering** pg 109
Graphics and computer-aided engineering An introduction to the basic principles of engineering drawing and graphics; introduction to the use and practical application of computer-aided engineering software tools	**Engineering science II** Electrical engineering – AC circuits; electrical machines; DC power supplies Dynamical systems – time domain response; frequency domain response; control systems Environmental engineering – environmental chemistry; heat and energy balances; application to contamination and pollution in the natural environment	**Electronic engineering** pg 106
Introduction to engineering An introduction to each stream of engineering	**Materials** Electrical – semiconductors; conduction processes; p-n junction; semiconductor fabrication Mechanical – manufacture of materials; microstructure and heat treatment of steel and alloys Civil – concrete technology; reinforced and pre-stressed concrete; timber technology	**Computer engineering** pg 105
	Engineering design Each group will be required to design and produce a light rail vehicle to carry a standard can over a track including two inclines, a bridge and a curve, and for a bridge to carry that vehicle. You will also have to design and produce an electronic circuit to operate your vehicle	**Electronic and computer engineering (joint programme)** pg 107

There is an optional language course in French or German, with certification, in the Senior Freshman and Junior Sophister (second and third) years. Both courses continue over the two years.

Civil, structural and environmental engineering

Students who wish to study civil, structural and environmental engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select civil, structural and environmental engineering as one of five specialist areas.

See pg 101.

What is civil, structural and environmental engineering?

Civil, structural and environmental engineering is a very diverse and broad discipline. It offers graduates the chance to work in many different areas, including designing and maintaining transport systems, looking after the environment, designing foundations for homes and buildings and designing many kinds of structures. Therefore, civil engineers are involved in every aspect of our lives. The skills needed to be a good civil engineer are a mathematical mind, a logical approach and good problem-solving abilities. In addition to these skills a civil engineer needs to be imaginative and inquisitive.

Civil engineering

Civil engineers design the services that we use and take for granted every day. Civil engineers ensure that we have clean running water, that traffic continues to move and that we have homes to live in and places to work. Whether it is supplying water to people or industry, building hospitals, factories or churches, or mining for fuel and other substances, a civil engineer has been involved.

Environmental engineering

Environmental engineers design the systems that provide us with water for all purposes and the systems that deal with waste. Environmental engineers also design ways of producing power from renewable resources and ensure that development happens in a sustainable way.

Structural engineering

Structural engineering is a branch of engineering that might involve designing a building, a bridge, a stadium, etc. Structural engineers have to ensure that a building is safe for the area that it is built in and for the purpose for which it is intended. It must also be economical and have a minimum impact on the environment.

Transportation

The planning and monitoring of our various transport systems, from cycling to high-speed railways, all come under the brief of the transport engineer. Not only does traffic have to be controlled, understanding the decisions that travellers make enables the engineer to influence users to make better choices for the environment and for each other.

This engineering specialism combines a unique set of skills – analytical and practical, as well as creative and environmental. Some professions, such as foundation and highway engineering or water supply, will require you, as the engineer, to be the sole expert or authority. Others, for example architecture, surveying and computer-aided design, will use your input on those aspects of the job that specifically relate to civil engineering design, construction and environmental impact.

What will you study?

Junior Sophister (third year) subjects include:

- **Structures** – the design and construction of all types of structures
- **Surveying** – the science of taking measurements to determine or establish the relative position of points above, on, or beneath the surface of the earth
- **Geotechnics** – the study of the properties and behaviour of the soil
- **Transportation** –the study of designing and maintaining sustainable transport systems
- **Materials** – the study of the properties and behaviour of the materials used in civil engineering
- **Hydraulics** – the study of water movement and flow
- **Geology** – the study of the earth and how this affects engineering
- **Highways** – the design of roads infrastructure
- **Computer-aided design** – the use of computers to create designs

In the Senior Sophister (fourth) year you will take four core civil engineering subjects and four optional subjects.

Final year options include:

- Design of the built environment
- Advanced theory and design of structures
- Engineering geology and hydrogeology
- Environmental engineering
- Transportation engineering
- Materials

A significant amount of teaching takes place in the laboratory, and the course involves a lot of project work. Students undertake site visits to civil engineering works and areas of geological interest nationally and there is also a one-week technical visit to an international location. Recent trips have included visits to Paris and Barcelona.

The Senior Sophister (fourth year) project will contribute approximately 20% to your final year marks. In recent years, students have designed a cathedral, a stadium and an opera house.

Study abroad

In the Junior Sophister (third) year, students get the chance to study in Europe (France, Germany, Italy or Spain) as part of the SOCRATES programme.

Career opportunities

In addition to working in the traditional areas of engineering such as construction, design and transport management, civil engineers are often employed in the banking industry, in law firms and in business areas. The numerical and problem solving skills and expertise that civil engineers have are broad based and make them very attractive employees to many different industries.

Further information

tcd.ie/Civil_engineering
Tel: + 353 1 896 2084

Computer engineering

Students who wish to study computer engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select computer engineering as one of five specialist areas.

See pg 101.

What is computer engineering?

Computer engineering is about understanding how computer systems work, and also how they integrate with other systems that surround us. For example, the car. A modern car contains many separate computer systems for controlling such things as the engine timing, the brakes and the air bags. To be able to design and construct such a car, the computer engineer needs a broad theoretical understanding of all these various sub-systems and how they interact. This might involve some mechanical engineering, thermodynamics and fluids as well as the computer systems themselves.

The impact of computer engineering has been more significant and more pervasive than that of many other disciplines. The mobile phone, the Internet and games consoles are all products that weren't even imagined 30 years ago, but have now been realised by the ingenuity of computer engineers.

Computer engineers may design computer hardware, write computer programs, integrate the various sub-systems together or do all three. Computer engineers need good management skills and good people skills as they often get quickly promoted to project manager positions.

What will you study?

Junior Sophister (third year) courses cover:

- **Microprocessor systems** (including building a microprocessor system) – all aspects of the principles, design, construction and characterisation of the hardware and system software of microprocessor-based computers
- **Concurrent systems** – systems of programmes designed to run alongside one another, in the same processor or in multiple connected processors
- **Computer-aided design** – principles and techniques used in CAD, such as visualisation and 3D modelling, artificial vision and robotics

In the Senior Sophister (fourth) year you will study:

- **Networking and advanced microprocessor systems** – protocols and behaviour of computer networks and the architecture of high-performance computer systems

- **Knowledge and data engineering** – principles and techniques for handling knowledge and data, from database methods and technologies to artificial intelligence and data mining
- **Operating systems** – programmes that coordinate, manage and control the allocation of computer resources to other programmes
- **Distributed systems** – programmes working in a coordinated way on widely-separated computers connected by networks
- **Computer-aided design**

Practical work is emphasised throughout the Sophister years (three and four) and in the final year you will be required to complete a substantial project. Recent projects have included:

- An investigation into Sugarscape
- Automatic visualisation of Java programmes
- CLP-based printing job scheduler
- Character comparison using image processing
- Statistical analysis of non-invasive high speed interconnect data
- Genetic algorithms for programme optimisation
- Virtual educational environments
- Real time smash simulation
- Bluetooth IP with payment for services

Career opportunities

The demand for software and system designers will continue to grow within the next decade. When you graduate you will find opportunities for employment in software companies, large industrial organisations, research institutions and multinationals in Ireland as well as in Europe, the US and Japan.

Further information

tcd.ie/Engineering/courses
Tel: + 353 1 896 1765

Electronic engineering

Students who wish to study electronic engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select electronic engineering as one of five specialist areas.

See pg 101.

What is electronic engineering?

Electronic engineering involves the use of electricity to perform a wide range of functions and then applying these functions to improve the quality of our lives.

The role of the electronic engineer is to devise suitable circuits and systems for the acquisition, storage, processing and transmission of low-power electronic signals as information-bearing electrical signals.

In today's Information Age there is an ever-growing use of mobile phones, internet resources, computers, entertainment systems, satellite imaging, optical fibres, and automation. Electronic components and circuits are the cornerstone technology used to monitor or detect, store, process and transmit the information generated by each of these systems. Electronic engineers provide the vital skills and innovation needed to design and develop these remarkable components and systems.

Course overview

In the Junior Sophister (third) year you will study a total of seven electronic engineering subjects and four core engineering subjects.

A typical weekly timetable would consist of 16 hours of lectures, 4 hours of tutorials, 3 hours of laboratory time and 3 hours of project time.

What will you study?

Junior Sophister (third year) courses cover:

Core elements of analogue and digital electronics – the principles of operation of electronic devices and their behaviour when connected to form circuits

Microprocessor systems – all aspects of the principles, design, construction and characterisation of the hardware and system software of microprocessor-based computers

Signals and systems – electronic circuits, mathematical methods and algorithms for describing and processing signals such as audio and video

Electromagnetism and optoelectronics – the principles of the physical systems and of the mathematical characterisation of the transmission of electromagnetic radiation

Telecommunications – electronic circuits and networks and the principles of modulation and coding for the transmission of information over guided paths and through free-space

Integrated systems design – modern microelectronic technology requires electronic engineers to design complex circuits that integrate many separate processes to form a complete system

In the Senior Sophister (fourth) year, in addition to a course in engineering management and wireless networks, you will choose a combination of subjects that allows further specialisation: from integrated circuit technology and design through to telecommunications and signal processing. Each final year student also completes a project. Some recent examples of final year project titles are:

- Ad hoc networks, visualisation tools for routing protocols
- Silicon dioxide thickness measurements using polarised optical microscopy and ellipsometry
- Automatic detection and removal of tear in old degraded film
- Speech reconstruction via exact zero-crossing analysis
- Novel A/D converter
- Sound field processor for C sound implementations

A final year electronic engineering student typically has a weekly timetable of 14 hours of lectures, 4 hours of tutorials and 3 hours of laboratory work. Additionally, you will have laboratory access for individual work on your project.

Studying abroad

You may choose to spend the Junior Sophister (third) year at a university in France, Italy or Germany as part of the SOCRATES programme.

Career opportunities

The careers open to graduates in electronic engineering range from circuit design in electronics companies through network design and management in telecommunications companies to opportunities in business and financial management where the analytic and problem solving skills of electronic engineers have long been appreciated.

Further information

tcd.ie/Engineering/courses
Tel: + 353 1 896 1738

Electronic and computer engineering (joint programme)

Students who wish to study electronic and computer engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select the joint programme in electronic and computer engineering as one of five specialist areas.

See pg 101.

What is electronic and computer engineering?

Organising both hardware (electronic) and software (computer) components into a useful and productive system is the principal job of the electronic and computer engineer. With a unique combination of both skill-sets, such an engineer is trained to make design decisions that result in the most productive systems.

Course overview

In the Junior Sophister (third) year you will study four core engineering subjects and seven electronic and computer engineering subjects. A typical weekly timetable would consist of 16 hours of lectures, 4 hours of tutorials, 3 hours of laboratory time and 3 hours of project time.

What will you study?

This degree option blends aspects of both the electronic engineering (see pg 106) and computer engineering (see pg 105) options into one course.

Junior Sophister (third year) courses cover:

Core elements of analogue and digital electronics – the principles of operation of electronic devices and their behaviour when connected to form circuits

Microprocessor systems – all aspects of the principles, design, construction and characterisation of the hardware and system software of microprocessor-based computers

Signals and systems – electronic circuits, mathematical methods and algorithms for describing and processing signals such as audio and video

Concurrent systems – systems of programs designed to run alongside one another, in the same processor or in multiple connected processors

Computer-aided design – principles and techniques used in CAD, such as visualisation and 3D modelling, artificial vision and robotics

Networking and advanced microprocessor systems – protocols and behaviour of computer networks and the architecture of high performance computer systems

Operating systems – programs that co-ordinate, manage and control the allocation of computer resources to other programs

Distributed systems – programs working in a co-ordinated way on widely-separated computers connected by networks

Knowledge and data engineering – principles and techniques for handling knowledge and data, from database methods and technologies to artificial intelligence and data mining

Telecommunications – electronic circuits and networks and the principles of modulation and coding for the transmission of information over guided paths and through free-space

Integrated systems design – modern microelectronic technology requires electronic engineers to design complex circuits that integrate many separate processes to form a complete system

In the Senior Sophister (fourth) year in addition to a course in engineering management and wireless networks, you will choose a combination of subjects that allows you to balance your specialisation between the electronic and computer engineering subjects.

Each final year student also completes a project that is assessed by a presentation and an end of year dissertation. Some examples of final year projects include:

- Sensor based ad hoc networks
- Microphone array characterisation
- Vector quantisation of images in pyramidal form
- To design and develop a campus-based wireless information access system
- Interactive distributed art installation using networking
- Impulsive audio event detection for video retrieval
- Anonymous, secure, robust and scalable peer-to-peer file sharing system for the internet
- A distributed music rehearsal studio application
- Secure lottery-like services over WAP

A final year electronic and computer engineering student typically has a weekly timetable consisting of 14 hours of lectures, 4 hours of tutorials and 3 hours of laboratory work. Additionally, each student is provided with laboratory access for individual work on their project.

Career opportunities

The variety of careers open to graduates of electronic and computer engineering range from designing embedded processors for a wide range of applications through network design and management in telecommunications companies to opportunities in business and financial management where the analytic and problem solving skills of electronic and computer engineers have long been appreciated.

Further information

Department of Computer Science
www.cs.tcd.ie
Tel: + 353 1 896 1765

Department of Electronic and Electrical Engineering
tcd.ie/Engineering/courses
Tel: + 353 1 896 1738

Mechanical and manufacturing engineering

Students who wish to study mechanical and manufacturing engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select mechanical and manufacturing engineering as one of five specialist areas.

See pg 101.

What is mechanical and manufacturing engineering?

This is often seen as the broadest of all engineering qualifications as the skills required range from mathematics and electronics to metal fatigue and fluid mechanics.

Nearly all machines used in every day life – from the car or washing machine to the most complex aircraft or electricity supply plant – have required the skills of a mechanical engineer. Every industrial plant or manufacturing operation relies on a mechanical engineer for its smooth running and efficiency.

Mechanical engineers are involved in design, testing, inspection and manufacture of mechanical devices and components. As a mechanical engineer you will work as a professional using technology to make the world a better, safer place.

What will you study?

Junior Sophister (third year) courses cover:

Thermodynamics – applications of heat energy in engines and other appliances

Solid mechanics – stresses and deformation experienced by components under service loads

Engineering materials – the behaviour of metals, polymers and ceramics under service loads or during the manufacture of products from these materials

Fluid mechanics – the study of gases and liquids, for example the flow of air over the wings of an aircraft, or the flow of air into a car engine

Manufacturing technology and systems – the various processes involved in making components

Mechanics of machines – the behaviour of components or assemblies when they are in motion

Mechatronics – the study of electro-mechanical systems, for example the electronic control of engines and manufacturing processes

Engineering design – principles underlying the correct design of components

Project work is an important aspect of this specialisation and there is an extensive research facility available to students. In the Junior Sophister (third) year you will work as part of a small team completing a design project to understand how goods are manufactured.

In the Senior Sophister (fourth) year you will undertake a major project in addition to studying advanced courses in areas such as vibrations and acoustics, biomechanics and tribology. Some examples of final year projects include:

- Study of jet engine exhaust noise
- Design and build an entry for 'Robot Wars'
- Design and construction of an energy storage device for a pedal cycle
- Pedestrian impact study
- Painting cars the way ants would

Study abroad

The Department has SOCRATES links with Katholieke University of Leuven, Belgium; INSA de Lyon (which provides a one-month intensive immersion course in French language if required); INPG Grenoble; Karlsruhe, Germany and KTH, Sweden.

Career opportunities

As well as the potential for a career in mainstream mechanical or manufacturing engineering, graduates have found work in industries as diverse as film production and airlines. There is also a demand for specialist research and development work in industry, research organisations and universities. Opportunities exist for graduates in mechanical and manufacturing engineering to find employment in Ireland and elsewhere in the following areas:

Engineering consultancy companies engaged in national and international engineering projects

Large public utilities – Local Authorities, transport, power generation etc.

Companies manufacturing mechanical, electronic, biomedical and pharmaceutical products

Specialist areas such as design, engineering management, financial services and IT

Further information

tcd.ie/Engineering/courses
Tel: + 353 1 896 1383

Computer science

COURSE CODE:	**TR033**	
PLACES 2006:	**65**	
POINTS 2005:	**365**	
Special entry requirements		
Leaving Certificate	HC3	Mathematics
Advanced GCE (A) level	Grade C	Mathematics

What is computer science?

Computer science is the study of how computer hardware and software systems are designed, built, and used to support human activity. Computers range from large systems, such as those used to manage e-commerce, to desktop PCs or games consoles that you use at home. Computers are also embedded in less visible places, such as mobile phones, cars and robots.

You will study how computers are used to solve challenging problems, how computers work, how computer software is developed, how computer hardware is designed, and how computers communicate with each other; you will also study the relationship between computers and society. Computers are to be found everywhere and their role in the world is constantly expanding, making computer science an exciting and rapidly growing area.

Is this the right course for you?

If you are interested in developing solutions to challenging problems, in how technology works, in how technology can be advanced, or in how technology can be applied, this course will suit you. And if you are thinking even further ahead to what you can do when you have completed your studies, you will find that computer science offers a diverse range of career paths.

Course overview

This four-year programme teaches you the fundamental principles of computer software, information management, computer hardware, telecommunications, mathematics, and the interrelationship of computers and society.

What will you study?

There is a significant amount of theoretical knowledge that has to be understood by everyone working in the area of computer science. This material is taught mainly during the first three years of the course. In the Junior Sophister (third) year a number of options are introduced and you will begin to work more closely in the areas in which you want to focus. Part of the third year will involve work in small teams to develop a large software system. Third year options include formal methods, advanced telecommunications, and advanced computer architecture.

In the Senior Sophister (fourth) year there is one core course and you will choose three options from a range of specialised courses. In addition, you will be required to undertake a substantial project supervised by a member of staff.

Study abroad

You may apply to spend third year studying at a university in Belgium, France, Germany or the U.K. as part of the SOCRATES exchange programme.

Career opportunities

As computers are such an integral part of everyday life the range of career opportunities available to computer science graduates is very diverse. Examples of careers chosen by recent graduates include: software development (in companies such as Microsoft, Oracle, Iona Technologies and Havok); hardware design and manufacturing (with companies including Dell, Hewlett Packard and Xilinx); work in the telecommunications sector (for companies such as Vodafone, Ericsson and Eircom). Other graduates apply their skills in a wide variety of industries, including financial institutions (such as Bank of Ireland, Barclays Capital Group and Deutsche Bank), consultancy (in companies such as Accenture, Ernst & Young and Price Waterhouse Coopers); and in specific application areas (for companies such as Statoil, Eagle Star Insurance, Goodbody Stockbrokers and Aer Lingus).

Trinity graduates have also formed successful companies and have taken leadership positions in industry and research.

Further information

www.cs.tcd.ie/courses/ba
Tel: + 353 1 896 1765

Course content

Core courses in the first three years:	Senior Sophister (4th year) options include:
Computer Software *Programming*: how to control computers in a variety of computer languages *Software engineering*: methods for developing high quality programs *Operating systems*: the software which drives computers *Compiler design*: how programming languages work *Information management*: the organisation of data into files and databases	*Artificial intelligence*: develops methods for emulating human reasoning mechanisms in computers *Distributed systems*: covers issues involved in building distributed networks of computers *Computer graphics*: explains how realistic images of complex scenes can be rendered by computer *Computer vision*: attempts to provide computers with the ability to understand images *Mobile communications*: explores the wireless communication technologies that pervade the modern world *Computer architecture*: looks at advanced aspects of the structure of computers *Advanced databases and information systems*: considers how complex systems manage data *Mathematical modelling*: applies mathematics to real-world problems
Computer Hardware *Computer architecture*: how computers are built *Digital logic*: how the basic logic units in a computer work *Electrotechnology*: analyses, electronic circuitry and the properties of electronic components	
Telecommunications *Physical transmission*: how data can be transmitted over various media (such as copper, optical fibre, and radio waves) *Telecommunications protocols*: the languages that machines use to talk to each other *Networking*: how computers can be interconnected	
Mathematics Provides the theoretical framework on which much of computer science is based and includes continuous and discrete mathematics, discrete and algebraic structures, statistics and numerical methods	
Computers and Society The historical, social, educational and philosophical aspects of computing, along with technical writing, presentation, and project management skills	
Broad Curriculum During the Senior Freshman (second) year students take a *Broad Curriculum* course (see page 27 or **tcd.ie/Broad_Curriculum**). Students intending to spend third year abroad can take a language course as their Broad Curriculum course	

Computer science, linguistics and a language (CSLL)

COURSE CODES:	TR010 (German)	TR011 (French)	TR013 (Irish)
PLACES 2006:	10	10	5
POINTS 2005:	440	440	-

Special entry requirements

Leaving Certificate	HC3	Mathematics (TR010, TR011 & TR013)
	HC1	German (TR010)
	HC1	French (TR011)
	HB3	Irish (TR013)
Advanced GCE (A) level	Grade C	Mathematics (TR010, TR011 & TR013)
	Grade C	German (TR010)
	Grade C	French (TR011)
	Grade B	Irish (TR013)

What is CSLL?

This is an interdisciplinary degree combining computers, linguistics and a language. It allows students to explore in-depth the relationship between spoken and written natural language and the formal languages used in computer science – some of these are computing programming languages and others are formal languages for unambiguously describing natural language and mathematical concepts. In computer science students learn the underlying fundamentals of computer software and computer-related mathematics; linguistics is the scientific study of a language: its grammar, syntax, semantics and phonology (sounds). The chosen language (either French, German or Irish) is studied to degree level.

Course overview

In the first two years half the programme is devoted to computer science and half to the study of linguistics and your chosen language. A year abroad is an integral part of the programme, further developing language skills and providing first-hand experience of university life in another country. It also provides a mechanism for students to incorporate greater optionality in the overall degree structure.

The final year offers students the opportunity to explore in greater depth areas where computers and language meet.

Is this the right course for you?

This course offers a unique combination of skills – a computer science degree with a language. In doing so, it provides two of the most sought after skills today: fluency in a second language and a degree in computers, opening up a host of possibilities for your future career. If you enjoy both mathematics and languages and are interested in combining topics, then this is the right course for you.

The Sophister years

Junior Sophister (third year) students study computer science and linguistics at a university in either Austria, France, Belgium, Germany or Scotland. The subjects you study during this year will depend on the specialist area of the particular university you choose, allowing you build a degree specifically focused on your interests and strengths. In the Senior Sophister (fourth) year you will take advanced courses in interdisciplinary areas such as artificial intelligence, information systems, and the analysis and synthesis of the human voice and speech. You will also proceed to advanced study in your chosen language, perfecting both your oral skills and your written skills in résumé, translation and essay writing.

An optional course and a major interdisciplinary project allow you to specialise in areas you particularly enjoy and to shape the degree around your individual strengths. Examples of final year course options include computer graphics, databases, computer vision, and speech analysis and synthesis.

The Freshman years Junior and Senior Freshman (first and second year) courses:

	Junior Freshman (1st year)	Senior Freshman (2nd year)
Computer Science	Mathematics Introduction to programming Introduction to computing	Discrete and continuous mathematics Programming techniques Systems programming and natural language processing
Linguistics	Introduction to the study of language (general linguistics) Introduction to phonetics and phonology Introduction to syntax	Syntactic theory Introduction to speech science Formal semantics Instrumental phonetics
Language	Comprehension/composition and oral classes	Comprehension/composition and oral classes

Assessment

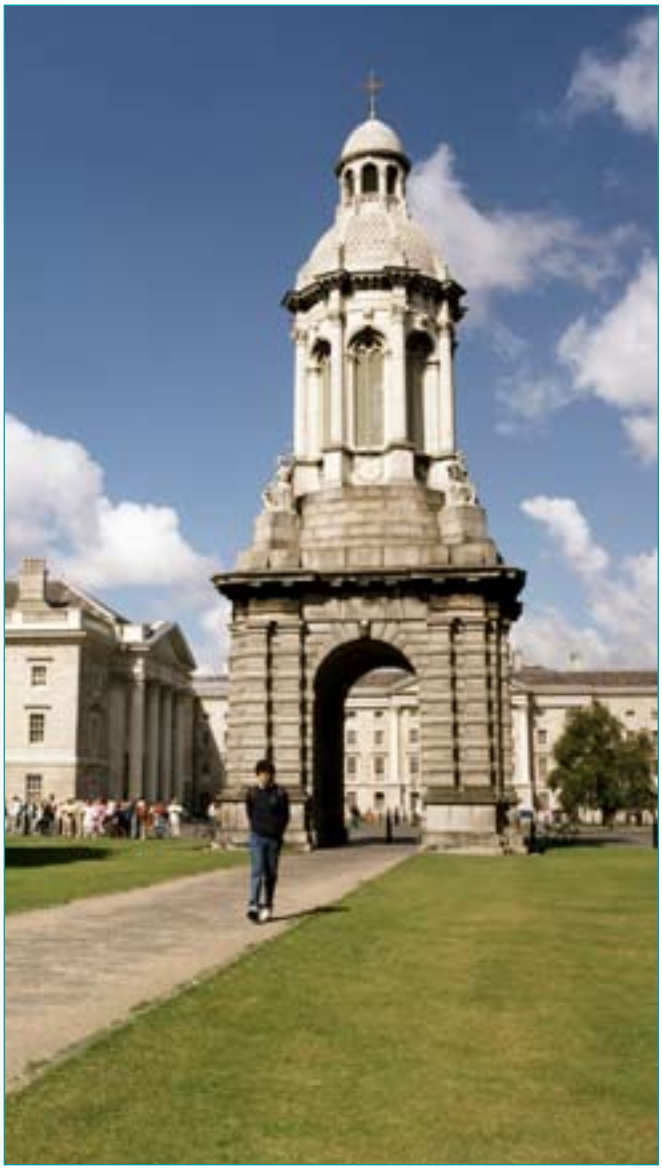
Written examinations, course work and projects are all used in assessment. You will also complete a final year dissertation amounting to 20% of your overall degree result. The course options and project provide great freedom in tailoring the degree to your interests and career plans.

Career opportunities

You will be qualified to work as a language specialist, an information technologist or a software specialist in any of the IT, banking, translation, publishing or multi-media sectors. About 65% of graduates work in software engineering (whether in a mainly English speaking country or in a country where the language of the degree focus is the primary language); about 25% pursue research careers beginning with further postgraduate study in Ireland or abroad. Another 10% tend towards a focus in technical translation.

Further information

www.cs.tcd.ie/courses/csll
Tel: + 353 1 896 2659



Management science and information systems studies (MSISS)

COURSE CODE:	**TR034**	
PLACES 2006:	**24**	
POINTS 2005:	**455**	
Special entry requirements		
Leaving Certificate	HC3	Mathematics
Advanced GCE (A) level	Grade C	Mathematics

What is MSISS?

MSISS combines the art of problem solving with the science of management. The emphasis in MSISS is on building up analytical skills, flexibility and creative thinking. One of the remarkable features of MSISS is the range of careers that graduates take up.

MSISS is made up of four strands. The first is based around developing skills in quantitative techniques, such as mathematics, statistics, probability, forecasting and management science. The second strand focuses on information technology and systems and ranges from basic end user tools, like spreadsheets, through programming, system design and development and databases up to state-of-the-art topics/ techniques in areas such as data mining and financial modelling. The third strand is business based and covers important concepts in management, finance, operations management and organisational psychology. The fourth strand seeks to develop a range of personal skills including teamwork, making presentations, interviewing, report writing and researching.

Course overview

The four strands in MSISS are organised as three main subject areas supported by the interpersonal skills framework. The three subject areas are:

Business and management

Quantitative analysis

Information systems

Interpersonal skills such as interviewing and making presentations are both taught explicitly and implicitly (i.e., built into the teaching of other subjects). An optional modern language course is also available.

The Sophister (third and fourth) years provide the opportunity to specialise in an area of your choice.

Is this the right course for you?

This course is ideally suited to students who like solving complex problems and are interested in both technology and business.

The range of subjects studied is wide and will challenge your abilities on several fronts, but it leads to graduates who have the ability to think about issues in both technical and business terms. MSISS is quite unique – there is no other undergraduate course in Ireland (or possibly even in the UK either) which offers this mix. As a result, graduates are highly employable in a world where a combination of business, technology and numerical skills are in increasing demand.

Course content

The modules covered by main subject areas are as follows:

Business and management:

- Introduction to management and organisation
- Finance and accounting
- Operations management
- Organisational psychology
- Economics

Quantitative analysis:

- Forecasting
- Management science (operations research)
- Data mining
- Market research
- Mathematics
- Probability
- Statistics

Information systems:

- Information systems and technology
- Programming (C, C++, Visual Basic and Oracle)
- Strategic information systems
- Application systems design and development
- End user computing

Personal skills:

- Making presentations
- Interviewing
- Report writing
- Research methods
- Teamworking
- Consulting

The Freshman years

During the Junior and Senior Freshman (first two) years, you will get a solid introduction to a number of fields. Subjects you will study include:

- Computer programming
- Economics
- Management science
- End user computing
- Mathematics
- Organisation and management
- Statistics
- Finance and accounting

You may also take one of French, German, Spanish or Italian as an optional language module (see page 27).

The Sophister years

The Junior and Senior Sophister (third and fourth) years allow you to focus on areas that are of particular interest to you.

In each year there is a number of core courses (six in third year and four in fourth year) and a range of optional subjects from which students select one in each of the final two years.

The choice of optional subjects is exceptionally wide and spans business studies, economics, computer science, statistics, mathematics and engineering. The courses currently offered include financial and management accounting, economics, human resources management, mathematics, marketing management, investment analysis, corporate financial reporting, statistical modelling and production and operations management.

A key feature of the Senior Sophister (fourth) year is the project. You will tackle a real-life, practical problem in an external organisation. In recent years projects have been undertaken for Merrill Lynch, Procter and Gamble, the Department of Agriculture, Dublin Corporation Credit Union, the Alzheimer Society of Ireland and the Royal Dublin Society to name but a few.

Assessment

You will be assessed by a combination of assignments and end-of-year examination. A report on the final year project is an important part of the assessment.

Career opportunities

MSISS is highly regarded by employers and has one of the best graduate employment records of any undergraduate course in Ireland.

Over recent years, the most popular careers for MSISS graduates have been in financial services, management consultancy and the actuarial and accounting professions, but each year there are students who do something quite different including, in a number of cases, starting their own companies.

Further information

www.msiss.com
Tel: + 353 1 896 2186

Engineering with management

COURSE CODE:	**TR038**	
PLACES 2006:	**20**	
POINTS 2005:	**355**	
Special entry requirements		
Leaving Certificate	HC3	Mathematics
Advanced GCE (A) level	Grade C	Mathematics

What is Engineering with management?

The course is broad in scope and aims to develop both the technical and business aspects of engineering.

Engineers are problem-solvers. They apply their practical and analytical skills to highly complex and varied problems. In almost every human endeavour, an engineer has been involved somewhere. They have created the designs and systems to make everything from:

- gliders to space shuttles
- ball point pens to laser printers
- matchbox cars to F1 racing cars
- wheelchairs to artificial joints
- yachts to 747s

However, in today's market, a qualification in engineering must also reflect the global commercial outlook of companies. Manufacturing engineers are in demand because they are seen as people who can contribute greatly to productivity and competitiveness in the world marketplace. Engineering with management is concerned with the analysis, design, improvement, installation and management of integrated systems of people, finances, materials and equipment. It draws upon specialised knowledge in a number of disciplines such as the management of people, finances, sales, marketing, production, project management and communications together with the principles and methods of engineering analysis and design.

Course overview

This course aims to produce graduate engineers capable of working in the competitive environment of world-class manufacturing. To achieve this, the syllabus integrates management subjects with a proven engineering programme. Approximately 80% of the syllabus comprises engineering subjects such as design, automation, computer simulation/modelling, and materials. The remaining 20% comprises management subjects such as marketing, finance, quality systems, operations strategy, and human resources management, amongst others.

The syllabus is ambitious and diverse and will appeal to students who wish to broaden a traditional engineering degree with business and management skills.

Is this the right course for you?

Do you like the creative, analytical, problem-solving focus of engineering? Do you like the diversity of engineering? Perhaps, though, you see your professional life more involved with running a company, managing projects, or being a consultant? If this describes you, then you should consider this course. The diversity and flexibility of this course will give you endless possibilities in your professional life, both in what you do and how you do it.

The Freshman years

The Junior Freshman (first) year covers the foundations in mathematics and physical sciences upon which all engineering is built, as well as introductory courses in manufacturing engineering and in management science. In addition, a course in computer science introduces you to general programming appropriate to engineers. The first year contains a high proportion of laboratory work to emphasise the practical nature of the discipline.

In the Senior Freshman (second) year you will take some more fundamental courses in mathematics as well as specific engineering courses in design, thermodynamics, fluid mechanics and materials. There are also introductory courses in statistical analysis and accounting.

The Sophister years

The Junior Sophister (third) year represents the highest load in terms of subject diversity. The engineering themes introduced in second year are further developed (e.g., mechanics of solids, materials, design) and this year also includes a range of management science subjects. These are positioned in third year so that they can be taught in the context of the engineering courses. For example the design project is integrated into each of the design, human resource management, and operations management courses.

During the Senior Sophister (final) year you will take two core subjects and select five optional subjects from a list of engineering and management subjects, and will also undertake a substantial project. This allows you to concentrate on the areas of the course you have found most interesting. The project is engineering in nature but will also require a significant business and project management input.

What will you study?

The course is structured around themes that are developed over the four years. These themes are:

General engineering	Design	Materials science
Manufacturing engineering	Management science	Business

Throughout the course, a strong emphasis is placed on group projects, case studies and teamwork.

Junior Freshman (1st yr):	**Senior Freshman (2nd yr):**	**Junior Sophister (3rd yr):**	**Senior Sophister (4th yr):**
A foundation year that will introduce you to many of the basic concepts in Engineering with management	Development of themes in engineering and management introduced in the first year	Integrates the professional degree in engineering with management science	Final integration of the professional degree in engineering with management science
Foundation Subjects: Mathematics Physics Chemistry Computer science	**Project Work:** Design projects introducing standards in drawing and design using computer techniques	**Project Work:** Individual and group design projects integrating manufacturing, business, and human factors	**Project Work:** Individual full-year engineering project with emphasis on the project management, human resources, financial, and business analysis
Engineering Themes: Engineering science Manufacturing technology Engineering laboratories	**Engineering Themes:** Mathematics Engineering science Mechanics of solids Electronics Materials Thermodynamics Fluid mechanics Engineering laboratories	**Engineering Themes:** Computer methods Mechanics of machines Control systems Failure of materials Manufacturing technology Engineering laboratories	**Required courses:** Advanced manufacturing Information systems & technology Final year options **(Engineering)** Thermodynamics, automation and control Vibrations and acoustics Fluid mechanics Biomechanics Tribology
Management Theme: Management science	**Management Themes:** Accounting and finance Statistical analysis	**Management Themes:** Project management Human resource management Quality systems Operations strategy Operations management	Final year options **(Management)** Total quality systems Supply chain management Strategic information systems Marketing New product development

Assessment

Assessment is by written examination, continuous assessment (laboratory and tutorial assignments) and project work. Some courses, such as design, are assessed completely by continuous assessment.

Career opportunities

Currently, the vast majority of all engineering graduates find themselves working in manufacturing environments. Because of their breadth of knowledge in both engineering and management practices, manufacturing engineers are found in all sectors: from aerospace to pharmaceutical, from electronics to bioengineering and from consumer goods to management consultancy. As an Engineering with management graduate you will have a wide range of skills that will allow you to excel quickly in both the engineering with engineering management fields. You will also be well qualified to pursue careers in project management and management consultancy.

Further information

tcd.ie/Engineering/courses
Tel: + 353 1 896 1367

Programme in Information Systems (evening attendance)

This programme comprises two distinct components:

- Diploma in Information Systems
- B.Sc. in Information Systems

Diploma in Information Systems

Minimum entry requirements

Six passes in the Leaving Certificate, or equivalent, with a minimum Grade C3 at ordinary level English and mathematics.

EU applicants who will be at least twenty-three years of age on 1st January of proposed year of admission may be admitted as mature students without having the minimum matriculation qualifications.

Application procedure

This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 30 June 2007 for entry to the academic year commencing in October 2007.

Application forms are available from the Admissions Office (**tcd.ie/Admissions**)

The Government's Free Fees Initiative does NOT cover this course. All students registered for the Diploma in Information Systems are required to pay tuition fees.

This part-time course is intended for those who wish to engage in computer programming, software development, systems design, project management and technical support within business, industry and government IT functions. The Diploma runs over two years with lectures delivered on three evenings per week.

Each student is also required to carry out significant project work involving development and implementation of an IT-based solution.

B.Sc. Degree in Information Systems

Entry requirements

Students who successfully complete the Diploma in Information Systems may apply for entry to the final two years of the Programme leading to the award of Degree in Information Systems.

Holders of other qualifications at a sufficiently high level and deemed to be equivalent to the Diploma in Information Systems may also apply for direct entry to the Degree component of the programme.

Application procedure

This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 30 June 2007 for entry to the academic year commencing in October 2007.

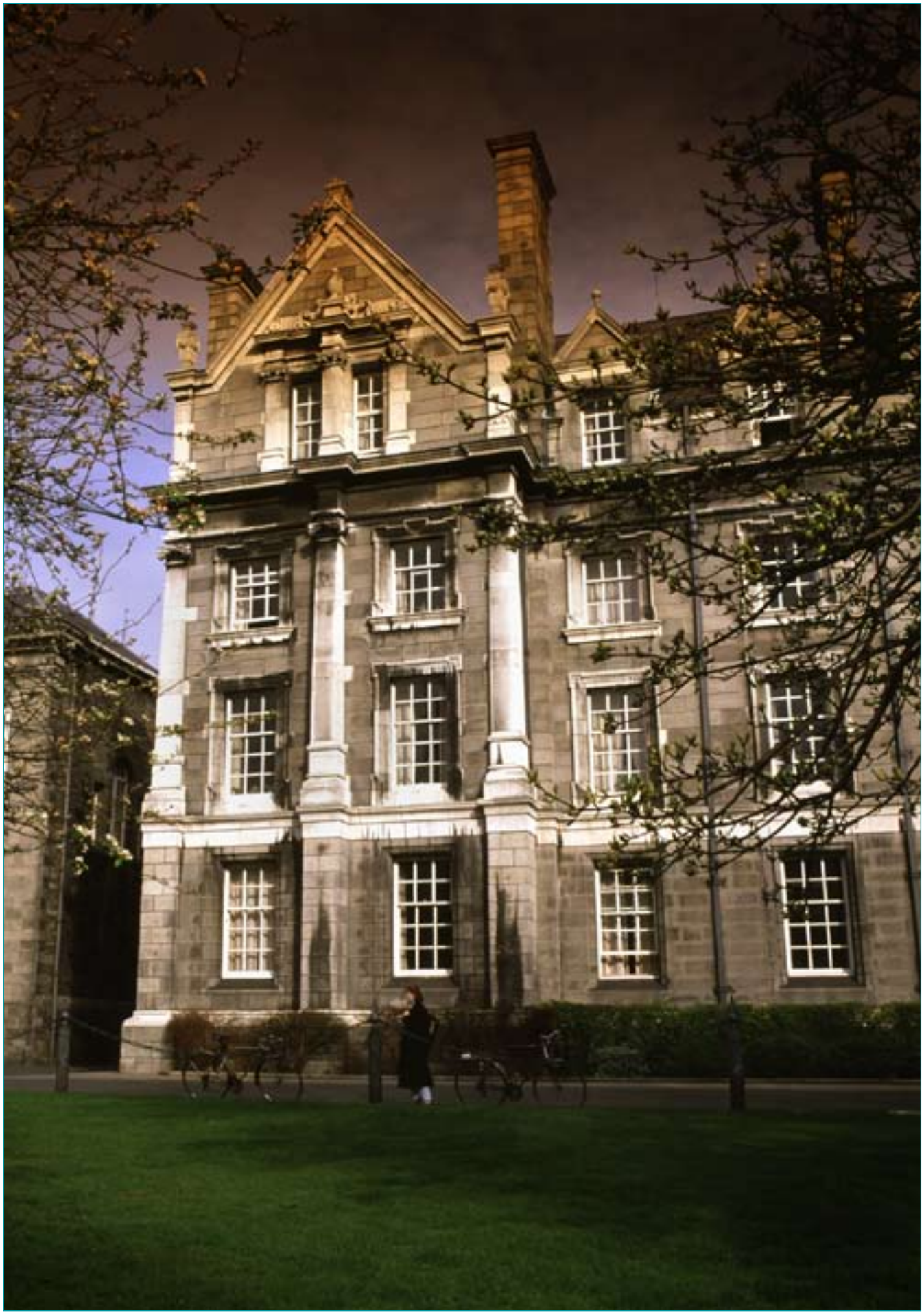
Application forms are available from the Admissions Office **(tcd.ie/Admissions)** or from the programme secretary.

The Government's Free Fees Initiative does NOT cover this course. All students registered for the B.Sc. in Information Systems are required to pay tuition fees.

This honors degree course is intended for those who wish to become senior professionals and managers in the IT sector. Graduates of the programme are equipped to manage within all sectors of the IT industry. The syllabus includes technologies, techniques and methods drawn from research and internationally accepted best practice. Lectures are delivered on three evenings a week.

Further details and application forms for the diploma and degree courses may be obtained from the Information Systems programme secretary at:

Tel: + 353 1 896 2414/896 1735.
Email **info@cs.tcd.ie** or visit
www.cs.tcd.ie/courses/bscis or
Admissions Office
Tel: + 353 1 896 1072/896 2003



Faculty of Health Sciences

Undergraduate programmes

TR051	Medicine
TR052	Dental science
TR053	Physiotherapy
TR054	Occupational therapy
TR055	Radiation therapy
TR072	Pharmacy
TR091/092	Nursing – general (Meath and St James's)
TR093/094	Nursing – general (Adelaide)
TR095/096	Nursing – psychiatric
TR097/098	Nursing – intellectual disability
TR911/912	Nursing – children's and general integrated
TR913/914	Midwifery
	Human nutrition and dietetics
	Bachelor in nursing studies (part-time)
	Bachelor in midwifery studies (part-time)
TR801	Dental nursing (diploma)
TR802	Dental hygiene (diploma)
TR803	Dental technology (ordinary degree)

Faculty of Health Sciences

If you are seeking a career as a health professional, the Faculty of Health Sciences at Trinity College offers a positive learning environment and fosters a team approach to the practice and delivery of healthcare to the highest international standards in institutional and community settings. This multi-professional education develops mutual respect and understanding between health professionals and promotes the sharing of knowledge and skills to facilitate efficient teamwork and self-confident clinical practice. The Faculty also promotes co-operation within the professions between clinicians and researchers, which encourages better and more efficient transfer of new knowledge into clinical practice.

Teaching facilities

Educational facilities exist both on the Trinity campus and in the associated hospitals of Trinity College. Purpose-built teaching centres at St. James's Hospital and the Adelaide and Meath Hospital, Dublin, incorporating the National Children's Hospital (AMNCH) at Tallaght include lecture theatres, seminar rooms, teaching laboratories, libraries, computer facilities, recreational facilities and offices for staff and postgraduate students. In delivering the bulk of its clinical teaching on the hospital sites, the Faculty seeks to provide a stimulating and exciting environment which allows for daily contact between the teaching staff, clinical staff, students, patients and clients, while maintaining links with other faculties in Trinity College.

International students

The Faculty admits between 50 and 60 international students each year into the medical programme and considers small numbers of applications from international students into its other courses, at undergraduate and postgraduate level. Prospective students should contact the Admissions Office for further information on admission requirements and fees. The Faculty Office employs a member of staff to provide support and assistance to international medical students.

Graduate School of Health Sciences

The Faculty offers a range of over thirty taught courses at M.Sc. and Postgraduate Diploma level in areas such as sports medicine, physical sciences in medicine, molecular medicine, health informatics, health services management, cardiology, clinical engineering and equipment management and many more.

Full details are available in the Postgraduate prospectus (see **www.tcd.ie/Graduate_Studies**).

Precautions against infectious diseases

Important: please read this section carefully.

All offers of admission to Clinical Speech and Language Studies, Dental Science, Dental Hygiene or Medicine are made subject to a negative HBsAg test result.

Students seeking entry to Clinical Speech and Language Studies, Dental Science, Dental Hygiene, or Medicine must produce negative Hepatitis B s-antigen (HBsAg) and Anti HB Core Antigen (Anti-HBc) test results carried out not more than six months prior to entry before being permitted to register with the College. In the case of a positive result from the above, a Hepatitis B e-antigen (HBeAG) test with a negative result is required before registration.

If Irish law or regulatory practice changes between the date of publication of this document and the date of registration for new entrants to these courses, the Faculty reserves the right to require that the criteria adopted by law and/or regulation in relation to the ability to practice clinically in Ireland be satisfied before registration is permitted.

All students entering the Faculty of Health Sciences are required to demonstrate evidence of immunity to tuberculosis within the first year of their course.

Students entering Nursing or Midwifery are required, for the safety of clients in linked health service providers, to comply with Garda Vetting procedures of the particular health service provider to which they have been admitted. Specific information will be provided at course orientation.

International applicants are advised to undergo the HBsAg test in their home country and to forward the result to the Medical School Office as soon as possible thereafter. The Faculty reserves the right to require a follow up test in a centre of its own designation if it deems it necessary to check the original test result.

Details of vaccination requirements will be provided to all incoming students, and may be obtained on request from the following offices:

Medicine: The School Administrator, School of Medicine, Chemistry Building, Trinity College, Dublin 2.

Dental: The Dental School Office, Lincoln Place, Trinity College, Dublin 2.

Nursing: Health Sciences Faculty Office, Chemistry Building, Trinity College, Dublin 2.

Dental science

COURSE CODE: TR052

PLACES 2006: 32

POINTS 2005: 555

Special entry requirements

Leaving Certificate	HB + HC	In two of physics, chemistry, biology, physics/chemistry or agricultural science If you do not have physics at HB3 or HC3 you must present mathematics at OC3/HD3 or better
GCE A-Level	Grade B + Grade C	In two of physics, chemistry or biology If you do not have A level physics at grade B or C you must present GCSE mathematics at grade B or better

Combinations of subjects not permitted
Physics/chemistry with physics or chemistry
Agricultural science with biology

All offers of admission to this course are made subject to a negative Hepatitis B antigen (HBsAg) test result.

See precautions against infectious diseases.

Course overview

This five-year programme is designed to ensure that graduates can safely and effectively deliver the full range of primary dental care, including prevention, diagnosis and treatment of oral and dental diseases. Treatment involves

areas such as the restoration of damaged teeth, the correction of irregularities, the replacement of missing teeth and surgical procedures such as the removal of teeth.

Is this the right course for me?

Yes, if healthcare in general interests you and if you would like to specifically focus on oral healthcare and its impact on individuals. The nature of dentistry makes it essential that you also have an ability to build a caring and professional relationship with patients, co-workers and the wider community. You should also enjoy undertaking work that requires considerable attention to detail with small margins for error. The course is long (five years) and intense and the academic year is longer than for students in other courses.

Why study at Trinity College?

The clinical facilities in Trinity are of a very high standard with emphasis on the use of information technology. The curriculum is delivered in a problem-based learning (PBL) format, which aims to provide you with the skills to continuously evaluate and update your knowledge and clinical practice through your professional career. The class sizes are small ensuring that staff and students are well known to each other.

Problem-based learning (PBL)

Through PBL information is not presented in separate disciplines e.g. physics, chemistry, anatomy, physiology, biochemistry, which then require the student to integrate each of the separate strands at some later date. Problem-based or problem-centred learning provides students with structured problems set to meet specified learning objectives. Students organise themselves (under supervision) to undertake research to find out about how to achieve the learning objectives. In the first two years the basic sciences are integrated into the problems. An additional benefit of PBL is that student learning occurs in a context that approximates the future situation in which the knowledge will be applied.

Course content

The course is delivered mainly through small group tutorials (PBL) that consist of student-led discussions on topics and problems presented and facilitated by staff. These topics tie in with the development of practical and clinical skills you will develop in laboratories and clinics. Lectures, demonstrations, simulations, audiovisual and e-learning opportunities are also provided as appropriate.

You will provide patient care under the strict supervision of dentally qualified staff from the second year onwards.

The first dental year

During the first dental year you will cover the following subject areas:

- PBL tutorials (6 hours/week)
- Anatomy workshops and lectures
- Physics PBL
- Introduction to dentistry
- Computer applications (ECDL)
- Behavioural science
- Ethics and law

The second dental year

The objectives of the second dental year are to ensure that you develop an understanding of:

- Normal function at cell and system levels and the integration of body systems
- Bacteria, viruses and their relationship to the human immune system
- Clinical signs and symptoms of systemic and oral disease
- Basic clinical skills necessary for the treatment of patients
- The principles of experimental design, data collection and analysis
- Relevant elements of the biological and medical sciences appropriate to the needs of a practising dentist
- Health and safety

In addition you will develop communication skills with particular reference to patient care, learn how to interpret and explain the clinical signs and symptoms of systemic and oral disease with particular reference to dental practice and begin to practice the clinical skills necessary for the treatment of patients. Courses in the second year are complemented by knowledge of the relevant elements of the biological and medical sciences appropriate to the needs of a practising dentist.

Clinical training begins in the second year with students learning the vital basic skills of history taking, examination and diagnosis. Approximately half way through the year you will start providing very simple treatments for patients.

Years three, four and five

During the later years of the course you will be encouraged to take an approach to the management of oral health and disease which is based on the best available scientific evidence. In tandem with this, you will also need to be aware of related general healthcare issues for individuals and communities. In these three years you will provide more complex patient care.

Topics you will study in years three, four and five include:

- Human diseases, including both medical and surgical aspects
- Public dental health with an emphasis on disease prevention and epidemiology, as well as on the care of special needs patients

- Children's dental health which includes orthodontics (braces) and dental care specific to children
- Restorative dentistry which involves fillings and crowns, periodontology which includes treatment for gum disease
- Prosthodontics which involves the various type of artificial replacements for missing teeth
- Experimental design, data collection and analysis

Assessment

In keeping with the PBL style curriculum a wide variety of assessment methods are used in all years. There are end-of-term integrated written assessments, practical tests, skills tests of competence, clinical examinations, written reports and oral/verbal presentations. The written assessments include short essay, short answer and multiple choice type questions.

Study abroad

Students in the fourth year can participate in a SOCRATES exchange programme with dental schools in Norway, Sweden, Spain and the UK. Between the fourth and fifth dental years some students undertake voluntary placements in a wide variety of international locations such as developing countries.

Career opportunities

Career prospects for graduates of dentistry are excellent. While most graduates enter general practice, many also enter the health board dental service, which provides care for special needs patients and children in health clinics operated by the regional health boards. A smaller number of openings exist in dental schools and hospitals for house officers or registrars. These positions can lead on to training in specialist areas. Other possibilities include postgraduate research or a university teaching career.

Your degree and professional practice

The degree Bachelor of Dental Science conferred by the University of Dublin entitles graduates to register immediately after graduation as a dentist on the Register of the Dental Council of Ireland as well the regulatory bodies of other countries in the European Union (such as the UK, France, Germany, etc.).

Graduates who wish to practice in countries outside the EU such as the USA or Canada will be required to undergo additional training and pass specified examinations.

Further information

tcd.ie/Health_Sciences

Dental hygiene (diploma)

COURSE CODE: TR802

PLACES 2006: 8

POINTS 2005: 475

This is a restricted entry course. Applications **MUST** be submitted by 1 February of the proposed year of entry.

Entry requirements

Leaving Certificate

A pass in English, mathematics and in four other subjects, one of which must be physics, chemistry, biology, agricultural science or physics/chemistry.

Of the six subjects presented two must be of a standard of at least grade C3 on higher Leaving Certificate papers. The remaining four subjects must be presented to a standard of at least grade D3 on ordinary Leaving Certificate papers.

Applications may also be considered from mature students who do not satisfy the academic entry requirements but can demonstrate relevant experience in dental hygiene.

All offers of admission to this course are made subject to a negative HBsAg test result.

See page 121.

What is a dental hygienist?

The role of the dental hygienist is to improve oral and dental health for individuals as well as for groups in collaboration with and under the supervision of a registered dentist. The dental hygienist utilises preventive and therapeutic procedures to prevent and/or control periodontal diseases and dental caries. The dental hygienist may plan, implement and evaluate oral health promotional and educational activities for groups and individuals. The dental hygienist may work within the dental team and with other groups of health care workers to provide holistic patient care.

Is this the right course for you?

If you have an interest in working in oral health, and particularly preventative oral health, then this course is right for you. You will need to be able to develop good patient care skills, so a caring and understanding personality is an advantage.

Course overview

This two-year course qualifies you for entry to the Dental Council Register of Dental Hygienists. It has academic, project-based and clinical components, and is carried out in the Dublin Dental School and Hospital on Trinity campus and health board units in Dublin. Emphasis is on small group interactive learning, design and implementation of community and health promotion projects, evidence-based learning, and clinical practice. You will be integrated with undergraduate dental science and dental nursing students for some elements of the course to ensure effective teamwork throughout the dental profession.

Course content

The curriculum has a modular design and some modules are prerequisites for others.

First year modules

- Infection control and immunity
- Clinical dentistry
- Dental and oral pathology
- Masticatory system
- Oral health and the community
- Practice management and computing
- Medical and dental emergencies
- Basic preventive and periodontal care
- Dental public health
- Psychology and social concepts in patient care
- Pharmacology and cross infection control
- Dental radiography
- Laboratory and clinical practice

Students who have been awarded the Certificate in Dental Nursing [TCD] may be exempt from certain first year modules.

Second year modules

- Human diseases and general pathology
- Prevention of diseases in the dental hard tissues in the child and adult
- Behavioural science
- Periodontology
- Research methods
- Dental public health
- Communications and health education

- Clinical practice
- Professional and practice management

After qualifying as a dental hygienist you will be able to:

- Describe the role of the dental hygienist in the promotion of oral health and the provision of primary health care
- Function within the dental team
- Plan, implement and evaluate oral health promotional and educational activities for groups and individuals
- Carry out procedures to measure and assess the levels of oral health and oral hygiene
- Debride and polish the teeth
- Place fissure sealants
- Topically apply fluoride containing preparations and desensitising agents to the teeth
- Identify abnormalities in the mouth and inform the dentist
- Take dental radiographs
- Administer infiltration local anaesthetic for dental hygiene procedures

Assessment

As well as written examinations at the end of each module, a community-based health education project, competence tests in various clinical procedures, clinical credits, demonstration of a reasonable level of patient care and a final written and clinical examination contribute to assessment.

Career opportunities

As a dental hygienist, you will find employment in general or specialist dental practices, in health boards, hospitals, and in research or industry.

Further information

tcd.ie/Health_Sciences

Dental nursing (diploma)

COURSE CODE: **TR801**

PLACES 2006: **20**

POINTS 2005: **335**

This is a restricted entry course. Applications MUST be submitted by 1 February of the proposed year of entry.

Entry requirements

Leaving Certificate

A pass in English, mathematics and in four other subjects, one of which must be physics, chemistry, biology, agricultural science or physics/chemistry.

Applications may also be considered from mature students who do not satisfy the academic entry requirements but can demonstrate relevant experience in dental nursing.

What is a dental nurse?

The dental nurse plays an important role in the organisation and management of the dental practice, assists the dentist in all aspects of patient treatment and plays a vital role in patient care.

The modern dental nurse trains in all aspects of clinical practice and dental health education. This course gives you the skills and practical competence needed to work in a dental surgery. You learn about the day-to-day running of a dental practice and acquire the qualifications for entry to the Dental Council Register of Dental Nurses.

Is this the right course for you?

Yes, if you have an interest in working as part of a dental team in the delivery of oral healthcare.

You will need to be able to develop good patient skills, be able to communicate effectively, and a caring and understanding personality is an advantage.

Course overview

This two-year course is divided into practical and academic (modular) components. Both the formal academic teaching and your practical clinical experience are gained at the Dublin Dental School and Hospital on Trinity campus.

In second year, you will spend time on external placements in the operating theatre of a general hospital and in a health authority dental clinic. You will also spend time gaining experience in general dental practices throughout the Dublin area.

The programme consists of lectures, tutorials, demonstrations and practical experience. You will be assessed on a continuous basis regarding suitability and application of theory to practice. By the end of the course, you will have developed appropriate skills in patient and team management. You will be integrated with undergraduate dental science students for some elements of the course to ensure effective teamwork throughout the dental profession.

Course content

First year modules

- Introductory module
- Microbiology and Cross infection control
- Dental and oral pathology
- Physiology and medical emergencies
- Clinical dentistry I
- Computer course (ECDL)
- Masticatory system
- Oral health and the community
- Psychology and social concepts in patient care
- Clinical dentistry II

Assessment

Year 1 is assessed by written examinations, practical examination and clinical assessment.

Second year modules

- Practice management
- Conscious sedation
- External placement

Assessment

Written component – examinations and written assignments

Clinical component – continuous clinical assessment, OSCE, clinical viva and examination

Career opportunities

As a graduate of dental nursing, you will be able to find work in dental hospitals and health board clinics, as well as in general and specialist dental practices.

Further information

http://web1.dental.tcd.ie from main menu select education – dental nursing - fulltime
Email: **dentalnursetutor@dental.tcd.ie**

Dental technology (ordinary degree)

COURSE CODE: **TR803**

PLACES 2006: **6**

POINTS 2005: **380**

This is a restricted entry course. Applications MUST be submitted by 1 February of the proposed year of entry.

Entry requirements:

Leaving Certificate

A pass in English, mathematics and in four other subjects, one of which must be physics, chemistry, biology, agricultural science or physics/chemistry.

Applications may also be considered from those who do not satisfy the above requirements but can demonstrate appropriate relevant experience in dental technology.

Course overview

This three-year course is designed to give you a high level of understanding and technical skills in all the basic disciplines of dental technology. You will get a good background in the relevant material science and learn how to accurately cast dental alloys, make porcelain restorations and create high quality dental appliances. You will be integrated with undergraduate dental science students for some elements of the course to ensure effective teamwork throughout the dental profession.

Is this the right course for you?

As a dental technologist, you will be working as part of the dental team fabricating prosthetic dental devices. Therefore, if you have an interest in oral health and are simultaneously creatively minded you will be suited to this course.

Course content

Based in the Dublin Dental School and Hospital on Trinity campus, this course includes lectures and practicals in the basic sciences, and in all aspects of laboratory techniques and technology. In the third year, you will be based in a dental laboratory, both to learn laboratory management and to develop your technical skills.

First year

- Dental anatomy
- Physics

- Chemistry
- Oral masticatory system
- Dental technology theory and practice

Years two and three

- Business studies
- Material science
- Computer studies
- Dental technology theory and practice
- Laboratory production
- Completion of a technical project

Assessment

Continuous assessment in the practical aspects of your work are combined with end-of-year written examinations in years one and two.

In third year you will undertake a scientific study which will include an experiment, and present a thesis which will be examined by external and internal examiners. You will also undertake production work throughout the year.

Career opportunities

This course qualifies you to work in a dental laboratory.

Further information

tcd.ie/Health_Sciences/

Human nutrition and dietetics

COURSE CODE: **DT223**

Special entry requirements

Leaving Certificate	HC3	In three subjects, one of which must be chemistry

For full details of admission requirements contact the Dublin Institute of Technology

Application procedure

Admissions to this course are processed by the DIT (course code DT223). In addition to standard CAO applications, advanced entry and mature entry applications are considered. Further details are available from:

The Admissions Office,
Dublin Institute of Technology,
Fitzwilliam House,
30 Upper Pembroke Street, Dublin 2.
Tel: + 353 1 402 3445
Fax: + 353 1 402 3392
Email: **admissions@dit.ie**
Web: **www.dit.ie**

Course overview

This course qualifies you to practice professionally as a clinical nutritionist or dietician, or to work as a public health nutritionist, or nutrition expert in the industrial sector.

Is this the right course for me?

Dieticians prevent disease by promoting healthy eating habits and by helping individuals to change their diets and eating habits. You will obviously need a strong interest in science subjects but, more importantly, will need to be interested in the relationship between food and health.

If you like the idea of combining science subjects with one-to-one dietary patient care, then this course is right for you.

Course content

This degree course is the only one leading to a professional qualification in dietetics in the Republic of Ireland. It takes place over four and a half years and is conducted jointly between the Dublin Institute of Technology (DIT) and the University of Dublin.

When you graduate you will receive a Diploma in Human Nutrition & Dietetics from the DIT, in addition to the B.Sc. in Human Nutrition & Dietetics from the University of Dublin. The degree is recognised by the Irish Nutrition & Dietetic Institute (INDI), the British Dietetic Association (BDA), the American Dietetic Association (ADA), and the Nutrition Society.

The Freshman years

During the Junior and Senior Freshman (first two) years you get a broad understanding of the relevant pre-clinical subjects. You will study:

- Mathematics
- Biostatistics
- Research methodology
- Information technology
- Physics
- Chemistry
- Biology
- Biochemistry
- Clinical chemistry
- Physiology
- Immunology
- Microbiology
- Behavioural science
- Food science
- Nutrition
- Dietetics
- Language and communications

The Sophister years

In the Junior and Senior Sophister (third and fourth) years, specialist subjects, including biostatistics, medicine, medical sciences, food science, nutrition, dietetics and behavioural science, are studied to an advanced level. Clinical classes are introduced in third year, in the areas of medicine and clinical nutrition/dietetics.

You will also undertake three months' research and six months' professional training during the Sophister years. Practical placements are arranged in clinical, community and industrial settings, with the option to carry out your final year research project in a partner European university.

Assessment

End-of-year written examinations, together with continuous assessment of course work, practical work and assignments make up the assessment process. Oral examinations are conducted in some subjects.

Continuous assessments are also carried out during your practical placements and a formal clinical examination takes place at the end of the course. You will also be expected to write a thesis to report the results of your final year research project, and to present and defend it orally.

Career opportunities

When you graduate, you will be well placed to find work as a dietician or clinical nutritionist in hospitals or health boards. You will also be qualified to work in, for example, a food company or in clinical nutrition product sales and marketing. Some of our graduates have also chosen academic careers in research or education.

Further information

Visit **www.tcd.ie/Nutrition_and_Dietetics**

Additional information can also be obtained from:

- The Irish Nutrition & Dietetic Institute (www.indi.ie)
- The Nutrition Society (www.nutritionsociety.org)

Medicine

COURSE CODE: **TR051**

PLACES 2006: **60**

POINTS 2005: **590**

Special entry requirements

Leaving Certificate	HB + HC	In two of physics, chemistry, biology, physics/chemistry or agricultural science If you do not have physics at HB3 or HC3 you must present mathematics at OC3/HD3 or better.
GCE A-Level	Grade B + Grade C	In two of physics, chemistry, or biology If you do not have A level physics at grade B or C you must present GCSE mathematics at grade B or better.

Combinations of subjects not permitted:

Physics/chemistry with physics or chemistry

Agricultural science with biology

See pg 121 for vaccination requirements with regard to Hepatitis B and Tuberculosis.

Why study medicine at Trinity?

The medical school at Trinity was founded in 1711 and has played a central role in the golden age of Irish medicine. Today it is an international leader in biomedical research and education.

Students of medicine at Trinity will follow a five-year programme leading to the degrees of Bachelor in Medicine, Bachelor in Surgery and Bachelor in Obstetrics. Following graduation you will spend a further year as an intern in an approved hospital before becoming a fully registered medical practitioner.

The major characteristics of medicine at Trinity are:

- Integration of scientific and clinical material and delivery in context
- Facilitation of active learning and a deep strategic approach
- Early and comprehensive development of technical and interpersonal skills
- Definition of the ideal programme of clinical rotation
- Continuous review and revision of the assessment programme to ensure alignment with the stated outcomes and course content
- Promotion of multiple assessment formats including continuous assessment and a reduction of reliance on annual high stakes assessments
- Recognition of the patient as an active partner
- Prioritisation of personal and professional development

Teaching hospitals

Trinity's two main general teaching hospitals, St James's Hospital and the Adelaide and Meath Hospital incorporating the National Children's Hospital, are up to date tertiary level hospitals. They have several specialist units. Specialist affiliated hospitals include the Coombe Women's Hospital, Our Lady's Hospital for Sick Children, the Central Mental Hospital, Dundrum, the Rotunda Hospital and St Patrick's Hospital.

Is this the right course for you?

The medical programme at Trinity is a challenging but highly rewarding experience. The academic requirements are high and there will be considerable demands on your time. As medicine is ultimately about the care of people, you will also need to feel comfortable in a people-oriented environment where teamwork will be equally as valuable as your individual contribution.

Course overview

The first medical year

The course is delivered as a set of three modules

Module 1: Human development and behavioural science

Aims are:

- To give students an understanding of concepts of normality in physical and psychological human development
- To enable students to understand the evolution of man and the functioning and relationships of individuals in relation to society and environment
- To equip students with a thorough and integrated knowledge of normal human function and behaviour

- To provide students with their first professional experience of health care through the family case study

Teaching Methods

- Family case study where students, guided by a family physician, make a number of visits to a family with a young baby and observe the physical and mental development of the baby and its assimilation into its family
- Lectures deal with the physical and psychological aspects of general human development
- Small group psychology tutorials using clinical scenarios to facilitate learning
- Ethical issues that may arise in the safe delivery of health care
- The skills that contribute to active learning and develop skills of information handling and critical thinking
- Aspects of teamwork and also the ability to give and receive constructive criticism and to self assess realistically

Module 2: Evolution and Life

Aims are to assist students to explore:

- The areas of basic science that impact on man and his survival in the environment
- The principles of biochemistry, genetics, immunology and microbiology at a basic level.

Teaching Methods

- Small group learning tutorials with related lectures as appropriate. All topics will be multidisciplinary and scenarios will be set in a human context. Disciplines contributing to this integrated module include physics, chemistry, biology, anatomy, physiology, biochemistry and immunology.

Module 3: Human Form and Function

Aims are:

- To enable students to build up a three-dimensional mental model of the normal macroscopic structure of the human body, commencing with a general overview of the bones, joints and muscles
- Human physical development and function at cell, organ, systems and whole body levels
- To develop an understanding of how structure relates to function with particular emphasis on the biomechanical and surgical implications
- To introduce students to current diagnostic imaging techniques and their use in the diagnosis of disease

Teaching Methods

- Most learning occurs in practical workshops using protected specimens, but there are also lectures
- Small group learning tutorials with related lectures as appropriate. All topics will be multidisciplinary and scenarios will be set in a human context. Disciplines contributing to this integrated module include physics, chemistry, biology, anatomy, physiology, biochemistry and immunology.

The second medical year

In this year there are four modules

Module 1: Molecular Medicine

Aims are:

- To develop a knowledge and understanding of the pharmacological basis of therapeutics
- To build on the understanding of basic biochemistry acquired in the first year of the course and to consider how that knowledge may be used for diagnosis of disease states
- To provide an insight into the mechanisms of the development of pathological processes at molecular level

This module is largely lecture based and also uses computer based practical programmes

Module 2: Neuroscience

The disciplines of anatomy, biochemistry, pharmacology and therapeutics, physiology and psychiatry all participate in this module

Aims are:

- To consider all aspects of the nervous system, from biophysics to behaviour, in health and disease
- The anatomy of the head and neck is included in this module and is delivered by lecture and workshop

This module consists of lectures, practicals and interactive workshops.

Module 3: Aetiology, mechanisms and treatment of disease

Aims are:

- To revise and develop further an understanding of the nature and significance of microbes in the 21st century
- To explore aspects of prevention and control of infection and the challenges which are presented as a result of globalisation
- To consider human host responses to pathogens
- To consider the range of drugs and treatment strategies available for disease prevention and control

- All disciplines use lectures, laboratory practicals and small group tutorials

Module 4: Clinical skills

Aims are:

- To focus directly on the range of skills necessary to ensure that students, in their early interaction with patients, are practiced in the essential skills of communication
- To assist the development of the student as a member of a multidisciplinary health care team
- To develop, at first in a laboratory setting, the technical skills essential for the delivery of a safe effective service to patients. These skills range from the ability to recall and interpret a peripheral pulse all the way through to Advanced Life Support in emergency situations

Modes of delivery include communication workshops with role play and video recording, skills laboratory, and workshops on suturing, catheterisation, phlebotomy, etc. Attendance at gerontology day care centres, diagnostic imaging and cardiology departments, and pulmonary function laboratories is organised.

The third medical year

There are 4 modules

Module 1: Aetiology, mechanisms and management of disease (2)

Aims are:

- To expand and deepen the understanding of the role of microbes in the causation of human health and disease
- To consider in detail how disease processes affect the cell and consequently disrupt function at organ, system and organism levels

Lectures, practicals and tutorials are divided more or less evenly between the disciplines of microbiology and pathology. Multidisciplinary structured cases will constitute an important integrating influence. This module is delivered in 16 teaching weeks between early October and late March. It is interspersed with three 5-week blocks of clinical attachments.

Module 2: Pharmacology and therapeutics

Aims are:

- To ensure that students have a broad knowledge of the treatment of a wide range of common diseases
- To ensure that students can prescribe safely and effectively in hospital and for the wider community
- To develop an appreciation of how to critically appraise information in relation to drug therapy and assess the evidence base contained in peer-reviewed journals

This module is delivered by lectures and includes approximately eight bedside clinical tutorials

Module 3: Evidence-based medicine

Aims are:

- To ensure that students gain experience in searching the scientific literature and obtaining appropriate material
- To develop a critical approach to published material
- To learn to prioritise aspects of their findings
- To learn to collate information and to deliver a succinct and factual report of their findings
- To learn to verbally present their material to their peers in a structured and meaningful way
- To have an opportunity, to explore at some depth and with guidance, a topic that impacts scientifically or clinically on the current practice of medicine.
- To understand the importance of teamwork and the problems that arise during group collaboration and the ways in which they may be managed

In these group projects students are offered a choice of project titles by the various departments in the medical school. Students select the project of their choice and, following a meeting with the staff project leader, they work in groups of 10 to review the literature and draw up a written report. They also make a verbal presentation to the class.

Module 4: Clinical medicine and clinical surgery

This module marks the beginning of the hospital clinical rotation programme

Aims are:

- To provide a safe structured clinical environment in which to apply skills, knowledge and attitudes developed in the earlier years
- To facilitate the practice of effective, patient centred, evidence-based medicine
- To provide the student with experience of practice in primary and secondary care areas
- To develop the student's capacity to reflect and self assess accurately and to appreciate the need to do clinical audit
- To encourage and provide opportunities for multi-professional teamwork
- Clinical team attachments begin with a general introduction on the first week in September. Students are team attached in groups of two. Students are also advised to do at least one elective in either July or August which may be spent in any discipline or area of their choice in any location worldwide.

Medical moderatorship

After completing year three successfully, you may be permitted to take a year out from the medical course to undertake a moderatorship in science in an approved subject. This is subject to the availability of places and the agreement of the head of department concerned, but is a good way to gain experience in scientific research if you are interested in the possibility of a career in academic medicine.

The fourth and fifth medical years

During these two years the emphasis is on continuous enhancement of the skills and attitudes acquired in the first three years of the course. There is, of course, some acquisition of important new knowledge and most of this is achieved through interaction with a wide range of consultants and mentors both on the wards and at various hospital conferences. The undergraduate student becomes an integrated member of each team to which s/he is attached and is expected to participate fully in all aspects of that team's activities. This expectation will inevitably involve some early morning and late evening work. The duration of team attachments vary from two weeks to two months so that each student is exposed to a wide range of general and specialist areas. There are excellent library facilities available on both the major teaching hospital sites. There are a range of special structured tutorials included in the final year to ensure comprehensive cover of important areas for all students.

The majority of hospital attachments take place in St James's Hospital in Dublin and the Adelaide and Meath Hospital incorporating the National Children's Hospital in Tallaght, however some training also takes place in regional hospitals around Ireland and in hospitals dedicated to particular areas of medicine.

Assessment

The assessment structure is wide and varied and includes in-course evaluation of practical and clinical skills, as well as case studies, research projects, formal written and oral examinations and Objective Structured Clinical Examinations.

Intern year

On completion of the medical course a doctor must spend one year as a resident medical officer/intern at a hospital or hospitals recognised for the purpose before being eligible for full registration with the Irish Medical Council. The University does not assume responsibility for these appointments. To practise in Great Britain and Northern Ireland, registration with the General Medical Council in the UK is necessary.

Career opportunities

As a doctor, you will have plenty of options to choose from when it comes to making a decision about your career. Most people wait until their year as an intern is complete before committing to one area over another. Some then enter general practice, while many more continue their training as a general physician or surgeon, or in a related specialist field. Alternatively, you might, as others have done, prefer to work in an area such as hospital management, or make research your priority by opting for a career in academic medicine.

For more detailed information on entry requirements, please contact:

Admissions Office
Trinity College Dublin
Tel + 353 1 896 1133
Email: **admissns@tcd.ie**
Website: **tcd.ie/Admissions**

For more detailed information on the medical programme, please contact:

Medical School Office
Trinity College Dublin
Tel + 353 1 896 1075
Email: **health.sciences@tcd.ie**
Website: **tcd.ie/Health_Sciences**

Midwifery

COURSE codes:	**TR913**	**TR914**
PLACES 2006:	**20**	**20**
POINTS 2005:	**-**	**-**

Special entry requirements

Leaving Certificate	O/HD3	Mathematics
	O/HD3	In one of biology, physics, chemistry, physics/chemistry or agricultural science
GCSE	Grade C	Mathematics
	Grade C	In one of biology, physics or chemistry

Note for mature applicants:

Applications must be received by the CAO by 1 February of the proposed year of entry. You are not required to submit a Mature Student Supplementary Application form to Trinity College. However, you will be invited to attend a written assessment by the Nursing Careers Centre and may, thereafter, be called to interview.

Screening and vaccination will be organised by the health service provider responsible for the practice area where you will be on placement.

See p. 121.

What is a Midwife and Midwifery?

The term 'midwife' means 'with woman'. The concept of partnership between the woman and the midwife is fundamental to midwifery practice and is based on mutual trust, support and collaboration. The midwife uses midwifery skills to provide care that is individual to each woman and recognises the woman's ownership of her birth experience. Care for women experiencing a physiological pregnancy and birth is the core of practice of the midwife. The midwife is the key professional providing continuity of care and promoting choice and control to women in pregnancy and birth, and to women and their babies following birth.

Course overview

This four year programme will be offered in partnership with two linked maternity care providers: Coombe Women's Hospital and The Rotunda Hospital.

Which maternity care provider will you train with?

After you accept an offer to this programme, you will receive a welcome pack from Trinity. This pack contains a form asking you to indicate which maternity care provider you would prefer to be linked with. Requests are dealt with on a first come, first served basis. Where possible you will be assigned your first choice, however, if the number of applicants exceeds the number of places available you will be assigned your second choice. A reserve list is held and if a vacancy arises it may be possible to transfer to your first choice.

Course content

The first three years combine learning in both university and midwifery practice in the maternity hospitals and will take place during the academic year with usual academic holidays. The final year will include a 36 week period of internship in midwifery practice for which the students will be salaried.

This programme will provide you with the knowledge and skills to meet the needs of women and their families in an individualised, culturally sensitive manner. There are two components to the midwifery degree programme – a theoretical component and a midwifery practice component.

Theoretical component:

The theoretical component of the course will be taught in the Trinity School of Nursing & Midwifery, D'Olier Street, and in the Trinity Centre for Health Sciences in St James's Hospital. Teaching methods include lectures, small group teaching, tutorials and practice classes.

The programme content will cover such areas as:

- Midwifery practice – knowledge and skills
- Communication and interpersonal skills
- Professional, personal, ethical and legal issues
- Knowledge base for midwifery practice to include: biological sciences, psychology, pharmacology, non-pharmaceutical approaches
- Social theory for midwifery practice
- Research
- Health promotion
- Maternal and social care services in Ireland

Midwifery practice component:

For the practice component you will be based in one of the maternity care providers: Coombe Women's Hospital or the Rotunda Hospital. Midwifery students will also undertake other practice placements, for example, mental health, medical, surgical. The final year will include a 36 week period of internship in midwifery practice for which the students will be salaried.

Midwifery practice placements take place throughout the four years of the programme. You will begin your first midwifery practice placement after Christmas of the first year of the programme. Before this placement you will have spent approximately one day per week with lecturers and midwives in the maternity hospitals.

Assessment

Assessment of learning in midwifery practice is an important component of the programme and will take place throughout the programme. Other forms of assessment include written examinations and assignments, presentations, debates, teaching sessions etc.

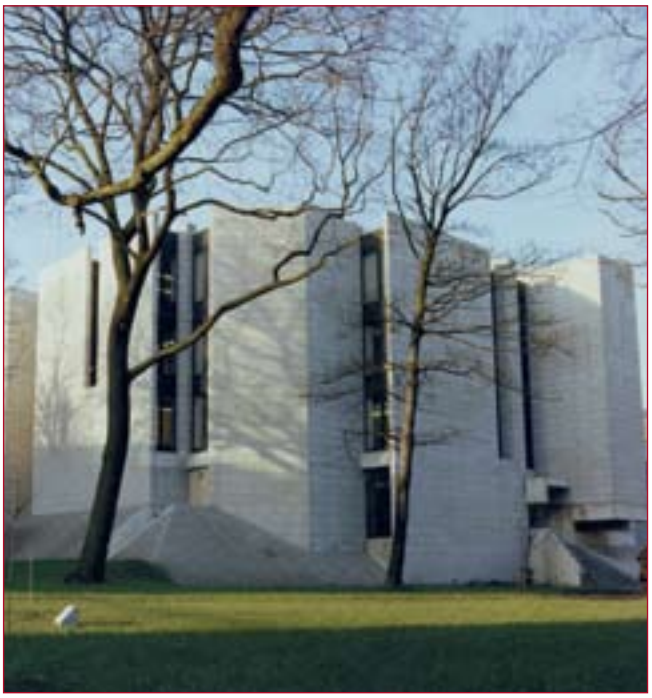
Career opportunities

As a graduate you will be eligible to apply to have your name entered in the midwives division of the Register of Nurses maintained by An Bord Altranais and begin your career as a midwife. Midwives may choose to work in a variety of health care settings. The majority of midwives practise within the Health Service, in maternity hospitals, maternity units of large and small general hospitals, in private maternity hospitals etc. Midwives can also practice independently and there is a small group of midwives who do so. There are also a number of midwife-led initiatives being developed.

Midwives have an option to develop their career in many different ways, progress along three broad pathways: practice, management, education and research. The opportunities are endless. Midwives educated in the Republic of Ireland may move freely within the European Union and in most countries worldwide.

Further information

www.tcd.ie/Nursing_Midwifery
Email: **nursing.info@tcd.ie** or **midwifery.info@tcd.ie**



Nursing: general/ psychiatric/intellectual disability/children's & general integrated

COURSE CODES:	**TR091-TR912**				
	TR091	**TR093**	**TR095**	**TR097**	**TR911**
PLACES 2006	**88**	**30**	**20**	**20**	**15**
POINTS 2005	**380**	**395**	**320**	**300**	**-**

See also Midwifery p.133

Special entry requirements

Leaving Certificate	O/HD3	Mathematics
	O/HD3	In one of biology, physics, chemistry, physics/ chemistry or agricultural science
GCSE	Grade C	Mathematics
	Grade C	In one of biology, physics or chemistry

Note for mature applicants:

Applications must be received by the CAO by 1 February of the proposed year of entry. You are not required to submit a Mature Student Supplementary Application form to Trinity College. However, you will be invited to attend a written assessment by the Nursing Careers Centre and may, thereafter, be called to interview.

Screening and vaccination will be organised by the health service provider responsible for the practice area where you will be on placement.

See p. 121.

Course overview

This four-year programme (children's & general integrated is 4 ½ years) is offered in partnership with six health service providers:

General nursing:

- The Adelaide and Meath Hospitals, incorporating the National Children's Hospital at Tallaght
- St. James's Hospital

Psychiatric nursing:

- Health Service Executive South-Western Area and East Coast Area
- St. Patrick's Hospital

Intellectual Disability nursing:

- Stewart's Hospital Services Ltd, Palmerstown
- St. Anne's, Moore Abbey

Children's & general integrated nursing:

- The Adelaide and Meath Hospitals, incorporating the National Children's Hospital at Tallaght

Which health service provider will you train with?

After you accept an offer to one of the nursing disciplines you will receive a welcome pack from Trinity. This pack contains a form asking you to indicate which health service provider you would prefer to be linked with. Requests are dealt with on a first come, first served basis. Where possible you will be assigned your first choice, however, if the number of applicants exceeds the number of places available you will be assigned your second choice. A reserve list is held and if a vacancy arises it may be possible to transfer to your first choice.

Is this the right course for you?

You will need to have a keen interest in healthcare, be capable of working as part of a team, and have a caring and understanding personality and outlook to enjoy working as a nurse.

Course content

This course will give you the knowledge, skills, attitude and professional values necessary to provide high quality, competent and caring nursing practice in the discipline of nursing you choose to follow. There are two components to the nursing degree course – a theoretical component and a clinical component.

Theoretical component:

The theoretical component of the course will be taught in the Trinity School of Nursing & Midwifery, D'Olier Street, and in the Trinity Centre for Health Sciences in St James's Hospital. Teaching methods include lectures, small group teaching, tutorials and practical classes.

For the theoretical component, students will undertake modules of study that are shared with all disciplines and modules that are discipline-specific. The subjects of study are Nursing, Biological Sciences and Social Sciences, with the emphasis being on Nursing.

Clinical component:

For the clinical component you will be based in one of the health service providers. Part of your course work will be unpaid practice placements in a variety of clinical settings. For General, Psychiatric & intellectual Disability disciplines, this will consist of 36 weeks taking place in two six-week blocks in each of years one, two and three of the programme. During the fourth year you undertake a 36-week roster of continuous placement and you will be a paid health service employee. The children's & general integrated programme will consist of 57 weeks of practice placements taking place in years one, two, three and four. During the fourth and fifth years of this programme you undertake a 36-week roster of continuous placement and you will be a paid health service employee.

As the course progresses you will be prepared to undertake a number of different clinical placements in your chosen discipline. These include:

General nursing

- **Medical nursing** – general/specialist (including day care, outpatients, coronary care, high dependency units)
- **Surgical nursing** – general/specialist (including day care, outpatients, coronary care, high dependency units)
- **Accident & Emergency and outpatients**
- **Child care and paediatrics**
- **Mental health and psychiatric nursing**
- **Care of the older person**
- **Home nursing/community** (including primary health care, voluntary & statutory agencies, intellectual disability)
- **Operating theatre**
- **Maternity care**

Psychiatric nursing

- **Psychiatric nursing** (acute and long term care in mental health)
- **Community-based care and rehabilitation**
- **Specialist areas** (e.g. addiction studies, child and adolescent psychiatry, special care units, behaviour therapy and forensic psychiatry)
- **Care of the older person**
- **Adult general nursing**
- **Management**

Intellectual disability nursing

- **Education and development of the child** - including a balance of caring and developmental experiences across a variety of generic and specialist settings
- **Education and development of the adult** - e.g. training, work, activation and living areas
- **Disorders of human behaviour** - specialising in the care of persons with disorders of human behaviour, including those with intellectual disability
- **Acute nursing** - specialising in the care of persons with acute nursing needs, including those with intellectual disability who have physical disability/illness
- **Specialist areas** - e.g. physiotherapy, communication, speech and language, and physical education
- **Management**

Children's & General Integrated Nursing

The children's and general integrated nursing programme combines the General programme as mentioned above and integrates a children's programme which results in a programme which spans the seven ages of man and allows for registration as both a Children's and a General nurse with An Bord Altranais.

- **Medical nursing** of infants, children and adolescents within a family centred framework (General and specialist placements)
- **Surgical nursing** of infants children and adolescents within a family centred framework (General and specialist placements)
- **Accident and Emergency** nursing of infants, children within a family centred framework
- **Operating theatre** nursing of infants, children and adolescents within a family centred framework
- **Mental health** issues for children and adolescents and their families Community nursing within a family centred framework
- **Maternity and neonatal care** within a family-centred framework

The Freshman Years

The Freshman (first and second) years of the course concentrate on nursing, biological, behavioural and social sciences and include:

Shared Learning Modules	Discipline-specific Modules
Wellness & health promotion Nurse as educator communicator Research for nursing practice Professional issues for nursing Clinical skills Personal and professional development Nurse as educator communicator Research for nursing practice Professional issues for nursing Personal and professional development Biology - the scientific basis for nursing Biology - introduction to the main systems of the body Applied biology - pathophysiology and pharmacology Advanced biology: anatomy and physiology Sociology of health and illness Introduction to psychology and health psychology for nurses The lifespan approach to health and illness	**General Nursing:** Introduction to general nursing Specialist approaches to nursing practice The principles and practice of general nursing **Psychiatric Nursing:** Concepts for psychiatric nursing Introduction to psychiatric/mental health nursing Mental health nursing and acute care Psychotherapeutic skills and mental health nursing Mental health nursing: acute and continuing care Specialist module: child and adolescent mental health and forensic mental health Specialist module - addiction/maternal mental health/ intellectual disability/general **Intellectual Disability Nursing:** The lifespan the person with intellectual disability Concepts of intellectual disability Holistic understandings of care Approaches to nursing practice Therapeutic interventions for care Frameworks for intellectual disability practice Psychology for nursing **Children's & General Integrated Nursing** All modules as per General Nursing, plus: The art and science of children's nursing The principles of children's nursing for practice placement The individual child and family in health and illness: the sick infant child
When not on clinical placement you can expect to spend at least 25 hours each week in guided study and approximately 10 hours in individual study. The first clinical placement of the course takes place after the Christmas vacation in the first year.	

The Sophister years

In years three, four and five (where applicable) you will develop and enhance your knowledge, skills and attitudes for professional nursing practice. Modules include:

Shared Learning Modules	Discipline-specific Modules
Nurse as educator communicator Research for nursing practice Management leadership in nursing Personal and professional development	**General Nursing** The principles and practice of general nursing Applied biology: pathophysiology & pharmacology Sociology for general nursing The psychology of illness, grieving and trauma Psychology for nursing: clinical judgements and decision making Contemporary issues, including biology, psychology and sociology
Advanced biology: anatomy and physiology Sociology of health and illness Personal and professional development Research proposal	**Psychiatric Nursing** Introduction to psychosocial interventions for clients with severe mental health problems Mental health nursing: care of the older person Mental health nursing: community and rehabilitation Applied biology: pathophysiology and pharmacology Sociology for psychiatric nursing Abnormal psychology Contemporary issues, including biology, psychology and sociology
Growth and development	**Intellectual Disability Nursing** Therapeutic interventions for care Approaches to nursing practice Frameworks for intellectual disability practice Applied biology: pathophysiology and pharmacology Sociology for intellectual disability nursing Abnormal psychology: health behaviours and cognitive abilities Contemporary issues, including biology, psychology and sociology
	Children's & General Integrated Nursing All modules as per General Nursing, plus: The individual child and family in health and illness: the well infant / child The adolescent and their family in health and illness
During fourth year (and fifth year, where applicable), you will be on a 36-week roster of continuous placement and you will be a paid health service employee.	

Assessment

A combination of examinations, essays, clinical projects, clinical skills, laboratory techniques, literature reviews (review of past and current literature relating to the subject matter), reflective practice (thinking about an experience and reflecting on its meaning) and clinical assessments is used.

Career opportunities

As a graduate you will be eligible to apply to have your name entered in the relevant division(s) of the Register of Nurses maintained by An Bord Altranais and work as a nursing professional in your chosen discipline. You should have no problem getting employment as nursing staff are in short supply worldwide.

You are also well qualified to continue your education and to further specialise should you wish to do so. Nurses also take up careers in industry, particularly in the marketing of healthcare products.

Further information

www.tcd.ie/Nursing_Midwifery
Email: **nursing@tcd.ie**

Occupational therapy

COURSE CODE:	**TR054**	
PLACES 2006:	**40**	
POINTS 2005:	**505**	
Special entry requirements		
Leaving Certificate	HC3	In one of physics, chemistry, biology, physics/chemistry or agricultural science
GCE A-Level	Grade C	In one of physics chemistry or biology

What is occupational therapy?

Occupational therapists work with people whose performance and participation in everyday living has been disrupted by disability, physical injury or illness, developmental problems, psychological problems and/or social and environmental impediments. Occupational therapists aim to help people improve their day-to-day quality of life by involving them in structured activities or occupations.

Occupational therapy is focused on the normal occupations of everyday life and on enhancing occupational performance. It is concerned not only with the ability of the individual to perform self-care, leisure and productive activities but also with the impact of the environment on the person's occupational performance. Occupational therapy interventions, based on careful task and activity analysis, are concerned with:

- The individual person – improving or maintaining their level of physical, cognitive (thinking), affective (emotional) and social ability.
- The task – analysing the task, comparing the demands of the task with the individual's abilities, and changing the task to make it possible for the person to do it.
- The environment – manipulating or adapting the physical environment so that it does not impede and, if possible, enhances occupational performance; providing assistive technology and related training; and influencing the social, cultural and institutional environment in ways that enable variously disabled and disadvantaged people to live as independent a life as possible and reach their full potential.

Occupational therapists may be based in a variety of clinical and community settings, including hospitals, rehabilitation units, schools, community health centres and people's homes. Some examples of what occupational therapists do include:

- Enable people to dress themselves again after a stroke
- Work with people with mental health difficulties to assist them in planning and organising a meaningful lifestyle
- Improve the play and movement skills of a baby or child with a disability
- Visit a disabled or elderly person to make their home easier and safer for them to use
- Assess the driving ability of someone with a disability
- Visit work places to assist people with a disability to modify their jobs and design work areas to better suit their needs
- Help people select and effectively use equipment and appliances, including wheelchairs, computers and other assistive technology and dressing aids, to increase their independence
- Working with adults with learning difficulties to improve their skills for living in the community
- Work with builders, architects and local authorities to design public places and homes that will suit people with various abilities
- Use activities, such as crafts, gardening or cooking to improve a person's hand function
- Show someone with memory difficulties how to use memory aids and cues

Is this the right course for you?

Yes, if working with people with diverse abilities is something you enjoy and find stimulating. Visiting an occupational therapy department will give you a good understanding of what is involved in this profession. Students are expected to have the physical, psychological and emotional stamina to actively participate in a fulltime course and to manage the demands of fieldwork placement that may be outside Dublin for a full term.

Occupational therapy at Trinity

Occupational therapy is based in the Trinity Centre for Health Sciences in a new purpose-built complex at St James's Hospital. This complex houses other Health Sciences disciplines and gives a multidisciplinary dimension to studying and working with other health professionals.

The Centre is about 2 miles from the main campus and is beside a Luas station on the line running between Tallaght and Connolly Station in the city centre.

Course overview

This four-year degree is designed to develop individuals, who not only have the specific personal and professional abilities required of a competent occupational therapist, but are also able to analyse, evaluate, make decisions and demonstrate resourcefulness. It incorporates a practical approach to solving problems and fosters a research-oriented and reflective attitude.

The Freshman years

The Freshman (first two) years focus on:

- The study of occupation

- Anatomy
- Physiology
- Psychology
- Psychiatry
- Medicine and orthopaedics

In addition you will study the foundations, theories and principles of occupational therapy and the technical skills used in practice. You will also follow courses designed to familiarise you with research methods and statistics and other approaches essential to a modern evidence-based health professional practice. Experiential and group learning are key teaching methods – you will be encouraged to 'learn by doing' in subjects such as art, health and wellness, communications and drama.

There are about twenty teaching hours per week in each of the first two years. About half of these hours are devoted to basic sciences – anatomy, physiology and psychology – and half to occupational therapy related studies, including practical work, professional and personal skills development and occupational science and theories.

The Sophister years

During the Sophister (third and fourth) years, you will focus on the theories, principles and practice of occupational therapy. Over the course of these two years, you will spend a total of 28 weeks in supervised professional practice in a variety of health and community care facilities around the country. You will also be expected to complete a research project on a subject of your choice that is relevant to occupational therapy.

Assessment

Assessment includes written examinations, essays, project work, a research project, and performance while on supervised professional fieldwork.

Career opportunities

Career opportunities are excellent both in Ireland and abroad. The course is World Federation of Occupational Therapists approved, which means the qualification is recognised worldwide, though some countries may require a therapist to sit an exam for local registration. There are also many opportunities for further study and development of specialised expertise in areas such as physical rehabilitation, mental health hand therapy, health services management, learning disability, disability studies, services for the elderly and community occupational therapy. Graduates may continue with post graduate studies through taught Masters programmes, and or undertake further research to PhD. level.

Further information

tcd.ie/Occupational_Therapy

Email: **mwhittle@tcd.ie**
Or see **www.wfot.org.au**

Pharmacy

COURSE CODE: **TR072**

PLACES 2006: **70**

POINTS 2005: **555**

Special entry requirements

Leaving Certificate	OC3 or HD3	Mathematics
	HC3	Chemistry
	HC3	In one of physics, biology, mathematics, applied mathematics, geography, geology or agricultural science
GCSE	Grade B	Mathematics
GCE A-Level	Grade C	Chemistry
	Grade C	In one of physics, biology, mathematics, geology, geography or applied mathematics

What is pharmacy?

Pharmacy is the study of all aspects of drugs, both natural and synthetic in origin, including their chemistry, their uses in medicines, and how they work within the body. Pharmacists work in a variety of settings – community pharmacies, hospitals, long-term care facilities, and within the pharmaceutical industry to name just a few. In many respects, their role as a key healthcare professional is to help people achieve the best results from their medications.

Is this the right course for you?

While this degree is an essential requirement if you wish to practice as a community or hospital pharmacist, pharmacy at Trinity opens a wide variety of professional opportunities in both industry and the healthcare sector.

As much of the course is scientifically led, a strong interest in this area will be important and will make your four years of study more enjoyable.

Course overview

The pharmacy syllabus has been designed to provide you with an all-round education in both the basic and pharmaceutical sciences, and in the practice of pharmacy itself.

The course comprises different types of study:

Orientation & Study Skills: This course will provide an orientation to the College and to the study skills needed for the degree course.

Supervised study: this is in the form of lectures, practical laboratory classes, tutorials, workshops and seminars.

Problem-based learning: uses a theme to provide problems that students work in facilitated groups to solve. The problems cover a range of subjects and in this way the integration of knowledge from each of the subjects is encouraged.

Guided study: this is directed but unsupervised study undertaken outside formal hours.

Over the four years you will study a series of subjects. Some are the recognised pharmaceutical sciences such as pharmaceutics, pharmaceutical chemistry, pharmacognosy and pharmacology. Other sciences, like chemistry, biology, physics, mathematics, physiology, biochemistry and microbiology, promote an understanding of the basics which underpin the applied pharmaceutical sciences. Some integrated topics, for example, pharmaceutical analysis, feature contributions from a number of academic areas. Other subjects relate to the practice of pharmacy and the role of the pharmacist in a professional setting.

Biology: a basic introduction to the molecular and cellular basis to life so that you can better appreciate how drugs and medicines work. It also includes introductory genetics, microbiology and developmental biology.

Physiology: the biology of the human body is an essential prerequisite to the study of pharmacology. Physiology covers the anatomy and physiology all the major body systems, such as blood, the heart, digestive and nervous systems.

Biochemistry: a basic introduction to the ways in which drugs are metabolised and how they act or cause toxicity by interacting with basic systems within cells and tissues.

Microbiology: studies bacteria, fungi and viruses. These are particularly important in pharmacy because these organisms cause so many diseases. Some medicines must be made free of microbes by either sterilisation or by being prepared aseptically.

Pharmaceutical, organic & bioinorganic chemistry: this course covers the organic chemistry of pharmaceutical materials as well as inorganic chemistry relevant to pharmacy.

Medicinal chemistry: this covers the principles of drug design and isolation.

Pharmaceutical Analysis: this subject deals with the theory and practice of pharmaceutical analysis.

Physical pharmacy: is a course covering the fundamental physiochemical principles of pharmacy of importance to formulation design, performance and stability.

Pharmaceutical calculations & data handling: teaches both mathematics and data handling to assist you with the application of both in pharmaceutical calculations and statistics.

Practice of pharmacy: this subject examines what pharmacists do in each of the areas of professional practice and because this involves working with patients, their families and others in the health service it also includes sociological and psychological subjects as well as a study of the health service.

Pharmaceutics and pharmaceutical technology: this subject is concerned with the formulation, production and evaluation of all types of medicines such as tablets, creams and injections.

Pharmaceutical chemistry: deals with aspects of the sources, identification, analysis and stability of the materials used in medicines. Additional topics include advanced drug discovery and design, molecular mode of action of drugs and the chemistry of drug metabolism.

Pharmacognosy: is the study of plants and animals, as well as substances extracted from them, which are used in pharmacy and are active in the treatment and prevention of diseases.

Pharmacology: develops the knowledge about how drugs work at the molecular, biochemical and cellular level that is essential if drugs are to be used effectively to treat disease in humans and in animals. The course also gives an appreciation of factors affecting the therapeutic benefits and adverse risks of medicines.

Pharmaceutical biotechnology: develops an understanding of how genetics and biotechnological methods can be used to develop new drugs, especially proteins.

In the final year you will undertake a research project and will also prepare a dissertation on an aspect of pharmacy practice linked to a community, hospital or industry option of your choice. In the past students have chosen the following as subjects for investigation:

- Validation of high performance liquid chromatography method for measuring penicillin V
- Physicochemical properties of anticancer prodrugs of butyric acid
- Molecular modelling and structure-activity study of new oestrogen receptor agonists and antagonists
- Gene delivery medicines
- 'Smart' polymeric drug delivery systems
- Internet pharmacy
- Determination of harpagoside content of herbal remedies containing Devil's Claw
- Isolation of valerenic and hydroxyvalerenic acid from valerian (Valeriana officinalis)

- A quality evaluation of herbal products containing Ginger and an overview of the evidence for their efficacy and safety

Assessment

A combination of continuous assessment and oral and written end-of-year examinations is used. Senior Sophisters (fourth year students) are also required to submit a thesis based on their projects.

Career opportunities

Your career prospects as a pharmacy graduate are excellent. Employment opportunities exist in community, hospital and industrial pharmacy, as well as in state services such as medicines licensing. In addition, you can opt to undertake research, or apply for entry to one of the postgraduate courses in hospital, industrial or community pharmacy.

Further information

tcd.ie/Pharmacy
Tel: + 353 1 896 2809

The pharmacy degree and professional qualification

The pharmacy degree alone does not entitle you to practise as a pharmacist.

After graduation you will be required to undertake a one-year training period and to sit the Pharmaceutical Society of Ireland's Licence Examination.

The pre-registration training year may be taken in a range of pharmaceutical settings including hospital, community and industrial environments.

Physiotherapy

COURSE CODE: **TR053**

PLACES 2006: **40**

POINTS 2005: **540**

Special entry requirements

Leaving Certificate	OC3	Mathematics
	or HD3	
	HC3	In two of physics, chemistry, biology, physics/chemistry, mathematics or agricultural science
GCSE	Grade B	Mathematics
GCE A-Level	Grade C	In two of physics, chemistry, biology, or mathematics

Combinations of subjects not permitted

Physics/chemistry with physics or chemistry
Agricultural science with biology

What is physiotherapy?

Physiotherapy – or physical therapy – places full and functional movement at the heart of what it means to be healthy. It involves treating patients of all ages with a range of illnesses and conditions, including those with back and neck problems, sports injuries, arthritis, or those recovering from strokes and operations. The methods employed include exercise therapy, manipulative procedures, and a variety of electrical treatments.

Physiotherapists may be part of a multidisciplinary medical team that includes physicians, nurses, speech and language therapists, psychologists, occupational therapists and social workers among others. Alternatively they may work from clinics or specialise in particular areas of the discipline.

Is this the right course for you?

Physiotherapy is both physically and academically demanding and you will need to have considerable emotional stability. As a career, it is not suitable for a person with certain physical disabilities. Visiting a local general hospital or other area where physiotherapists work will give you a good understanding of what exactly is involved.

Physiotherapy at Trinity

Physiotherapy is based in the Trinity Centre for Health Sciences in a new purpose built complex at St James's Hospital. This complex houses other Health Science disciplines and gives a multidisciplinary dimension to studying and working with other health professionals.

The Centre is about 2 miles from the main campus and is beside a Luas station on the line running between Tallaght and Connolly Station in the city centre.

Course overview

The major objective of this four-year course is to enable you to become a competent professional with the ability to work independently with patients.

There are two components to physiotherapy: theory and clinical practice. In the first year the emphasis is on laying a foundation of theoretical knowledge and the second year introduces the students to the clinical skills and procedures used by physiotherapists. Clinical sciences are taught mainly in the second and third years. In the third and fourth years students spend up to fifty percent of time on clinical placement. In the fourth year students have an opportunity to develop specialist knowledge in a particular area of physiotherapy and undertake a research project.

The Freshman years

As a Freshman (first and second year) student you will have approximately 20 hours of teaching each week divided between lecture and practical classes.

Courses covered in the first two years include:

- Physiology
- Anatomy
- Physics
- Chemistry
- Pathology
- **Movement studies** – includes procedures to improve strength, mobility and balance
- **Electrotherapy procedures** – includes the use of electrotherapy to alleviate pain, improve circulation and re-educate muscles
- **Manipulative procedures** – includes the use of soft tissue massage and manipulations to improve mobility and improve circulation

You will also start to study various conditions and specialities frequently seen in physiotherapy such as respiratory conditions and musculoskeletal conditions.

At the end of second year you will start clinical placements under the supervision of skilled and experienced tutors. These may be taken in hospitals, clinics, day centres or within private and community practice.

The Sophister years

In the Junior Sophister (third) year half of the time is spent on academic studies and the other half on clinical placements in a variety of settings both within and outside the Dublin area.

In the Senior Sophister (fourth) year, you will undertake an investigative project on a topic related to physiotherapy in conjunction with advanced study in an area of your choice. Examples of subject choices available include care of the elderly, paediatrics, women's health, sports injuries and pain.

Assessment

End-of-year written examinations and tests in certain subjects, such as anatomy, make up the theoretical assessment structure.

In addition, you will be continuously assessed during your clinical placement and will have practical exams on the skills element of the course, including your assessment of a patient while on a clinical placement.

Did you know?

There are a wide variety of specialist areas in the practice of physiotherapy. These specialities include neurology, respiratory care, coronary care, orthopaedics, women's health, care of the elderly, sports and out-patients.

Career opportunities

Successful completion of the course entitles you to membership of the Irish Society of Chartered Physiotherapists, the accrediting body for Physiotherapy in Ireland.

Physiotherapists are sought throughout the world and you will be able to work with a wide range of conditions or to specialise, as you wish. There is also great scope for you to continue to develop your skills and expertise in areas such as manipulative therapy, sports injuries, neurology, cardiology, respiratory, research, education, management or private practice.

Further information

tcd.ie/Physiotherapy
Tel: + 353 1 896 2110

Radiation therapy

COURSE CODE: TR055

PLACES 2006: 25

POINTS 2005: 510

Special entry requirements

Leaving Certificate	HC3	In one of physics, chemistry, biology or physics/ chemistry
GCE A-Level	Grade C	In one of physics, chemistry or biology

What is radiation therapy?

Radiotherapy is one of the main methods used to treat patients with cancer. This course qualifies you to work as a radiation therapist – the practitioner who is responsible for the delivery of a course of radiotherapy.

When you qualify, you will work with clinical oncologists and physicists to plan the best course of treatment for patients. You will be trained to be the main point of contact for the patient and will be involved in all aspects of his or her treatment.

Is this the right course for you?

The radiation therapist requires very specialist skills. Your degree will cover a lot of science subjects so you will have to have a keen interest in biology, physics and chemistry. The development of your clinical skills requires you to be interested in patient care as well. Your job will also be both physically and emotionally demanding and this career is not always suitable for people with certain disabilities.

Course content

This four-year degree gives you a broad academic base on which to develop the clinical skills of radiotherapy. It qualifies you to analyse, evaluate and make decisions and to initiate, participate in and encourage research into the profession. There are both theoretical and clinical components to this degree, the emphasis being more on the theoretical component in the first two years and more on the clinical and research component in the last two years.

The Freshman years

The first two years of the course cover the basic sciences – physics, chemistry and biology. You will also study the structure and function of the human body through anatomy, physiology, biochemistry and genetics, and will be introduced to psychology, pathology and basic professional attitudes and skills.

A clinical component will introduce you to radiotherapy and will develop your understanding of the complexities of the cancer patient.

The Junior Freshman year

In the Junior Freshman (first) year you will spend between 20 and 30 hours per week in class or 35 hours per week in clinical placement.

The subjects you will cover in class are:

- Biology
- Physics
- Chemistry
- Professional studies

You will spend 2 months in a clinical setting

The Senior Freshman year

Second year courses include:

- Biochemistry
- Physiology
- Anatomy
- Medical and radiation physics
- Introduction to Cancer Medicine
- Psychology
- Communication and counselling skills

You will spend 1 month in a clinical setting

The Sophister years

In the Sophister (third and fourth) years, you will study more specialist subjects that are specifically related to cancer and patient care, and complete a project in this area.

Subject areas include:

- Cancer and its overall management
- The professional skills of radiotherapy
- Counselling and communication
- Health care management
- Radiotherapy Treatment Planning and Physics

A significant clinical component is also part and parcel of the final two years. The clinical sites are the radiotherapy departments attached to St. Luke's Hospital, Dublin, Cork University Hospital, the Mater Private Hospital, Dublin, St.

Vincent's Private Hospital, Dublin, University College Hospital Galway, The Galway Clinic, and The Limerick Clinic. Clinical placement is 4 months in Junior Sophister (third) year and 5 months in Senior Sophister (fourth) year.

Assessment

Will consist of written end-of-year examinations, project work and continuous assessment. A clinical portfolio and thesis are the main assessment processes in your final year.

Throughout the course you will be examined in both theoretical and clinical subjects, and must satisfactorily complete your clinical component. Part of the clinical programme will take place during the vacation periods.

Did you know?

There are information days held throughout the year for students interested in finding out more about radiation therapy.

For details of the next information day please contact Jill Byrne on (01) 896 3250.

Career opportunities

There is a worldwide need for radiation therapists, so you should have no difficulty finding employment when you graduate.

The broad scientific content of the degree also means you will be well qualified to start a career in research and development, medical technology, or the marketing of products associated with cancer medicine in particular, and in the health sector generally.

Further information

tcd.ie/Radiation Therapy
Email **mcoffey@tcd.ie** or **dougallm@tcd.ie**

Bachelor in Midwifery Studies

Application Procedure

This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 31st March 2007 for entry to the academic year commencing in October 2007.

Application forms available from:

Admissions Office, West Theatre, Trinity College, Dublin 2.
Tel: (01) 896 2003/3664
Email: **admissns@tcd.ie**

Registered nurses and midwives in the employment of public health care agencies may apply to their health service employer for inclusion in the Department of Health and Children's part-time fees initiative. Where fees are not paid by the health service employer, students registered for the BNS/BMS will be required to pay tuition fees.

Course overview

Contemporary trends and developments in the delivery of health care present a challenge to the midwifery profession in terms of reclaiming and expanding the midwife's role and responsibilities.

This degree programme aims to provide midwives with an increased level of knowledge, skills and attitudes about the principles and processes of practice. The programme will:

- develop students' knowledge of the nature of midwifery
- enable students to analyse the full extent of the midwife's role and to consider a range of issues relevant to contemporary midwifery practice
- challenge students' thinking and assumptions about the profession

Who is eligible to apply?

Midwives who hold registration as a midwife with An Bord Altranais, the Irish nursing board, and who qualified with the Diploma in Midwifery (or equivalent), may apply for admission into this one-year programme leading to a Bachelor in Midwifery Studies honors degree.

Midwives already holding registration as a midwife with An Bord Altranais but without the Diploma in Midwifery (or equivalent) may apply for admission to a one-year part-time Access to Degree programme which, on successful completion, will allow access to the beginning of the degree year.

Course structure

This course takes place over one academic year on a part-time basis. You will be required to attend the University for one study week at the beginning of the course and one day a week throughout the academic year. Although there is no specific clinical component, students are expected to be practising midwifery whilst undertaking the course and the assignment has a particular practice focus.

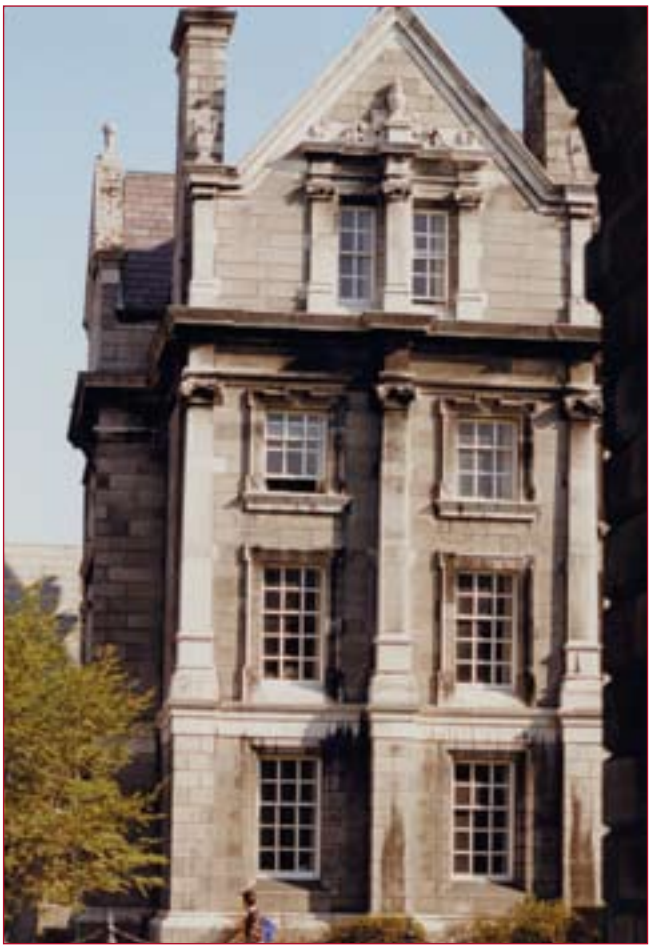
Course content

The course comprises five modules:

- Governance in midwifery practice
- Expectant approach to midwifery practice
- Health care quality and informatics
- Communication and the facilitation of learning in midwifery practice
- Research methods

Assessment

Assessment methods are designed to require both an analytical approach to reading and reference to the student's own practice. A combination of essays, projects and group work is used and a research proposal forms part of the research methods module.



Bachelor in Nursing Studies

Application Procedure

This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 31st March 2007 for entry to the academic year commencing in October 2007.

Application forms available from:

Admissions Office, West Theatre, Trinity College, Dublin 2
Tel: (01) 896 2003/3664
Email: **admissns@tcd.ie**

Registered nurses and midwives in the employment of public health care agencies may apply to their health service employer for inclusion in the Department of Health and Children's part-time fees initiative. Where fees are not paid by the health service employer, students registered for the BNS/BMS will be required to pay tuition fees.

Course overview

Contemporary trends and developments in the delivery of health care have brought about an expansion of the nurse's role and responsibilities. These developments have resulted in the need to provide the nurse with a depth and breadth of knowledge at graduate level.

This degree programme aims to provide nurses with an increased level of knowledge, skills and attitudes about the principles and processes of practice. The programme will develop students' knowledge concerning the nature of nursing and challenge their thinking and assumptions about their profession.

Who is eligible to apply?

Candidates who hold registration with An Bord Altranais, the Irish nursing board and who qualified with the Diploma in Nursing Studies (or equivalent), may apply for admission into this one-year programme leading to a Bachelor in Nursing Studies honors degree.

Nurses already holding registration with An Bord Altranais, but without the Diploma in Nursing (or equivalent) may apply for admission to a one-year part-time Access to Degree programme which, on successful completion, will allow access to the beginning of the degree year.

Course structure and content

The Bachelor in Nursing Studies is a part-time modular programme. Lectures are provided one day per week and there is one study week at the start of the academic year in the University of Dublin, Trinity College. Successful completion of the programme will result in the award of a Bachelor in Nursing Studies degree (BNS).

The programme is composed of five compulsory modules, which address current issues in nursing practice and health care.

- Leadership and management in nursing practice
- Health care quality and informatics
- Communication and the facilitation of learning in nursing practice
- Contemporary issues in nursing practice
- Research methods

Course assessment

All modules are assessed by continuous assessment (assignments). To achieve an overall pass a minimum of 50% must be achieved in each module.

Faculty of Science

Undergraduate programmes

TR031 Mathematics

TR035 Theoretical physics

TR071 Science (with specialisations in biochemistry with cell biology, biochemistry with immunology, biochemistry with structural biology, botany, chemistry, environmental sciences, genetics, geography, geology, microbiology, neuroscience, physics, physics and astrophysics, physics and computer simulation, physiology and zoology)

TR073 Human genetics

TR074 Chemistry with molecular modelling

TR075 Medicinal chemistry

TR076 Physics and chemistry of advanced materials

The world is your oyster when you study science

In recent years, scientists have made phenomenal developments in terms of increasing our understanding of how the world around us works, interacts with the environment and impacts on everyday life. They have also contributed to the introduction and development of many exciting inventions that have made daily life much easier – contact lenses, mobile phones, laptop computers, new pharmaceutical drugs and satellite imaging are just a few examples.

With over 1,600 undergraduate students, 125 full-time lecturers and 138 technical support staff within the Faculty of Science at Trinity, you can look forward to a vibrant and friendly centre of learning that lets you explore your scientific creativity and prepares you to be a scientist in tomorrow's world. With wide-ranging course options, opportunities to study and work abroad during your studies, and excellent job prospects after graduating, the sky is the limit when it comes to realising your potential in this field.

The science degree and study abroad

You will have the option to study abroad in the Junior Sophister (third) year in most science courses. In the past, for example, students have studied in the USA, Canada, Australia, and in a variety of universities throughout Europe. Optional language classes in French, Spanish, Italian or German are available to you in first and second year (see pg 27) to facilitate this. Some departments will also actively encourage you to spend your summer months working abroad in a research laboratory.

Further information

tcd.ie/Science
Tel: + 353 1 896 1970

Science (common faculty entry)

COURSE CODE: TR071

PLACES 2006: 290

POINTS 2005: 440

Special entry requirements

Leaving Certificate	HD3 or OC3 Mathematics	
	HC3	In two of: physics, chemistry, biology, mathematics, physics/chemistry, geology, geography, applied mathematics or agricultural science
GCSE	Grade B	Mathematics
GCE A-Level	Grade C	In two of physics, chemistry, biology, mathematics, geology, geography or applied mathematics

Combinations of subjects not permitted:

Physics/chemistry with physics or chemistry
Agricultural science with biology
Applied mathematics with mathematics

Course overview

Science is a small word and yet it conjures up the whole spectrum and sum of human knowledge about the natural world. So where do you begin?

It is precisely because of the scope and variety of this field of study that science at Trinity is structured with choice in mind. Courses in the first two years are designed to introduce you to and train you in the fundamental sciences. By the end of the Senior Freshman (second) year you will have moved far beyond the extent of science as it is taught at school and will understand better where your real interests lie. At this point you have the opportunity to focus on one of sixteen specialist areas for your final two years.

Is this the right course for you?

Science at Trinity leaves plenty of room for flexibility and is ideal if you want to explore the many avenues open to you as a scientist. Even if you already know what you want to specialise in, you will find that employers value the benefits of a broad-based scientific training and background.

Course overview

Science students normally attend 28 to 32 hours per week of lectures, laboratory practical classes, tutorials and seminars.

Teaching is by lectures, seminars, tutorials and laboratory classes, so you will become familiar with laboratory practice and the methodology of scientific research from the first year. Smaller seminar classes and group tutorials mean that you will also be able to discuss course work with lecturers and other students in a friendly and informal atmosphere.

Tutorials are given at both basic and advanced levels to explain, expand and support the material presented in lectures.

TR071 Science at a glance

Junior Freshman (first year)	Senior Freshman (second year)	Junior and Senior Sophister (third and fourth years)
Students take either: Mathematics + 2 subjects from the list below **Or** Mathematical methods + 3 subjects from the list below Mathematics can also be studied as a single honor subject see pg 167	**Select three subjects from:** Biology I Biology II or Mathematics Chemistry Geography or Physics Geology	**Select one of:** Biochemistry with cell biology p. 152 Biochemistry with immunology p. 153 Biochemistry with structural biology p. 153 Botany p. 154 Chemistry p. 155 Environmental sciences p. 156 Genetics p. 157 Geography p. 158 Geology p. 159 Microbiology p. 160 Neuroscience p. 161 Physics p. 162 Physics and astrophysics p. 162 Physics and computer simulation p.162 Physiology p. 163 Zoology p. 164
Mathematics This course teaches mathematics as a full subject and provides a basic mathematical training suitable for all branches of science. ■ Calculus ■ Partial derivatives ■ Linear algebra ■ Differential equations ■ Computing ■ Probability and statistics **Mathematical Methods** A short foundation course in mathematics and computing for first year students not taking mathematics as a full subject. This is a less detailed course that will introduce you to the principles and rules governing scientific investigation. Students who take this course may not take one of the physics degree options in 3rd and 4th years. Topics include: ■ Introduction to computing ■ Functions, graphs, derivatives, maxima and minima ■ Integration ■ Matrices, linear equations	**Mathematics** ■ Advanced calculus, multiple integrals ■ Fourier analysis ■ Ordinary and partial differential equations ■ Linear algebra ■ Probability and statistics ■ Computation (or mechanics for physics students)	
Biology Broad-based training in the fundamentals of modern biology. Topics include: ■ Introduction to molecular and cellular biology ■ Genetics ■ Developmental biology ■ The biology of lower organisms ■ Plant and animal biology ■ Ecology	**Biology I** Molecular and Cellular Biology ■ Fundamentals of biochemistry ■ Molecular and cellular microbiology ■ Molecular genetics, genetic analysis and bioinformatics ■ Neurophysiology and neurobiochemistry **Biology II** Organisms and Environment ■ Evolution ■ Plants and people ■ Vertebrate form and function ■ Ecology ■ Behaviour	

Junior Freshman (first year)	Senior Freshman (second year)
Chemistry General introduction to the fundamentals of modern chemistry divided into three disciplines: *General and inorganic chemistry:* stoichiometry, atomic structure, principles of bonding, the Periodic Table, aspects of main group and coordination chemistry *Physical chemistry:* acids and bases, electrochemistry, the solid state, gas laws, thermodynamics, equilibria and kinetics *Organic chemistry:* aliphatic and aromatic functional group chemistry	**Chemistry** Second year courses deepen your knowledge in each of the main areas of the subject. *Inorganic chemistry:* a study of the solid state and of the main group and transition metal elements and their compounds, including coordination complexes *Physical chemistry:* chemical thermodynamics, bond properties, basic quantum theory and spectroscopy, colloidal particles and polymers, and kinetics *Organic chemistry:* the chemistry of aromatic compounds, stereochemistry, synthesis of organic compounds and organic spectroscopy
Geography/Geology A combined course offering a general introduction to both subjects. Geography topics include: ■ Atmospheric and oceanic sciences ■ Climate change ■ Environmental hazards and disasters ■ Geomorphology ■ Globalisation ■ Nature and society ■ Uneven development ■ Urbanisation Geology topics include: ■ Origin of the universe ■ Solar system and planet Earth ■ How our planet functions as a physical, chemical and biological system	**Geography** Topics include: ■ Cultural geography ■ Economic geography ■ Historical geography ■ Natural and human-modified environmental processes and systems ■ Geographical methods introduction to mapping, computer-based geographical information systems (GIS), statistics, surveying and satellite remote sensing. **Geology** Theoretical topics range from the arrangement of atoms in crystals to the architecture of mountains; from the study of ancient life to the nature of the Earth's deep interior. Technical skills include reading geological maps, the examination of rocks using the microscope, and the application of basic physics to solving geological problems.
Physics Previous knowledge of physics is not required for this course Topics include: ■ The Physics of motion ■ Physics of sport ■ The material world ■ Hearing and seeing ■ Electromagnetic interactions ■ Origins of modern physics ■ Exploring the universe	**Physics** Second year develops topics from the first year: ■ Special relativity ■ Oscillations ■ Physical optics ■ Thermodynamics ■ Quantum physics ■ Nuclear physics ■ Observing the universe ■ Current electricity

Biochemistry with cell biology

Students who wish to study biochemistry with cell biology apply to the science degree (TR071) and may select biochemistry with cell biology as their specialist area for the 3rd and 4th years.

Junior Freshman (first year) prerequisite: chemistry + biology or physics

Senior Freshman (second year) prerequisite: biology I

For details of the first two years of the science course, including entry requirements, see pages 149-151.

What is biochemistry with cell biology?

Cells form the smallest organisational unit of life, while biochemistry is the study of the chemical basis of life. Consequently, biochemistry with cell biology focuses on the study of the chemical basis of the living cell. This subject area is also an integral part of medicine, as it helps us to understand the mechanics of how disease and disorders occur. It is also an essential component of biotechnology, where processes for the production of foods and fuels, and enzymes or other proteins are developed.

What will you study?

The courses in the Junior Sophister (third) year provide a broad knowledge and understanding of the fundamentals of biochemistry and cell biology – from the behaviour of simple cells to the complex development and organisation of the human being.

Topics include:

- Bioenergetics
- Membrane function
- Cellular regulation
- Immunology
- Protein chemistry
- Enzyme catalysis
- Photosynthesis
- Eukaryotic gene structure

A research project in the area of either biochemistry or cell biology forms an essential part of the Senior Sophister (fourth) year. Examples of research areas from which topics may be chosen include the cell cycle and cell division, cytoskeleton, developmental biology, cancer, neurobiology, molecular and cellular parasitology, viral evasion mechanisms, cell signalling, metabolism, the immune system and control of cell death.

Career opportunities

This course equips you to work in all major aspects of biochemistry, cell biology and molecular biology. You may decide to continue your studies at the postgraduate level and subsequently take up a career in industrial, medical or academic research. Alternatively, you will be qualified to work in hospitals and commercial laboratories dealing with biotechnology, food science, pharmaceuticals or diagnostics. Recent graduates have also opted for careers in teaching, information systems, communications and management, and have even crossed over into areas such as accountancy, law and merchant banking, where there is a demand for the skills developed in the biological and chemical sciences.

Further information

tcd.ie/Biochemistry
Tel: + 353 1 896 1608

Biochemistry with immunology

Students who wish to study biochemistry with immunology apply to the science degree (TR071) and may select biochemistry with immunology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisite:
chemistry + biology or physics

Senior Freshman (second year) prerequisite: biology I

For details of the first two years of the science course, including entry requirements, see pages 149-151.

What is biochemistry with immunology?

Biochemistry is the study of the chemical basis of life. Immunology is an exciting and rapidly developing area of science. It involves studying the molecules and cells of the body that are involved in recognising and fighting infection and disease. As such, it complements biochemistry well, as this is an area that also seeks to understand the nature of disease and medical disorders.

What will you study?

In the Junior Sophister (third) year you will share many of your courses with other students of biochemistry, particularly in the areas of cell and molecular biology. Immunology topics covered include:

- Core concepts in immunology
- Cells and molecules of the immune system
- Infectious diseases and vaccines
- Autoimmunity, allergies and cancer

In the Senior Sophister (fourth) year you will carry out a research project within one of the department's active immunology research groups and also cover specialist topics in both biochemistry and immunology.

Career opportunities

On completion of this course you will be qualified to work in all areas of biochemistry and/or immunology. Given the exciting developments in immunology currently, graduates of this course will be ideally suited to continue studying at postgraduate level and subsequently take up a career in industrial, medical or academic research. Some graduates will work in hospital and commercial laboratories. However, previous graduates have also gone on to study medicine or pharmacy, and even crossed into areas such as teaching, information systems, accountancy, and management.

Further information:

tcd.ie/Biochemistry
Tel: + 353 1 896 1608

Biochemistry with structural biology

Students who wish to study biochemistry with structural biology apply to the science degree (TR071) and may select biochemistry with structural biology as their specialist area for the 3rd and 4th years.

Junior Freshman (first year) prerequisites:
chemistry + biology or physics

Senior Freshman (second year) prerequisite – biology I

For details of the first two years of the science course, including entry requirements, see pages 149-151.

What is biochemistry with structural biology?

Cells form the smallest organisational unit of life, while biochemistry is the study of the chemical basis of life. The goal of structural biology is to characterise in atomic detail the molecules (proteins, lipids, DNA and RNA) that perform the various functions that are essential for a living cell. The function of a molecule is related to its form, and this was demonstrated by Watson and Crick when they proposed the structure of DNA. The mechanism for DNA replication was evident from their model, and they subsequently won the Nobel Prize for their work.

What will you study?

The courses in the Junior Sophister (third) year provide a broad knowledge and understanding of the fundamentals of biochemistry and structural biology – from the behaviour of simple cells to the complex development and organisation of the human being.

Topics include:

- Proteomics
- Molecular immunology
- Protein chemistry
- Bioenergetics
- Enzyme catalysis
- Eukaryotic gene structure

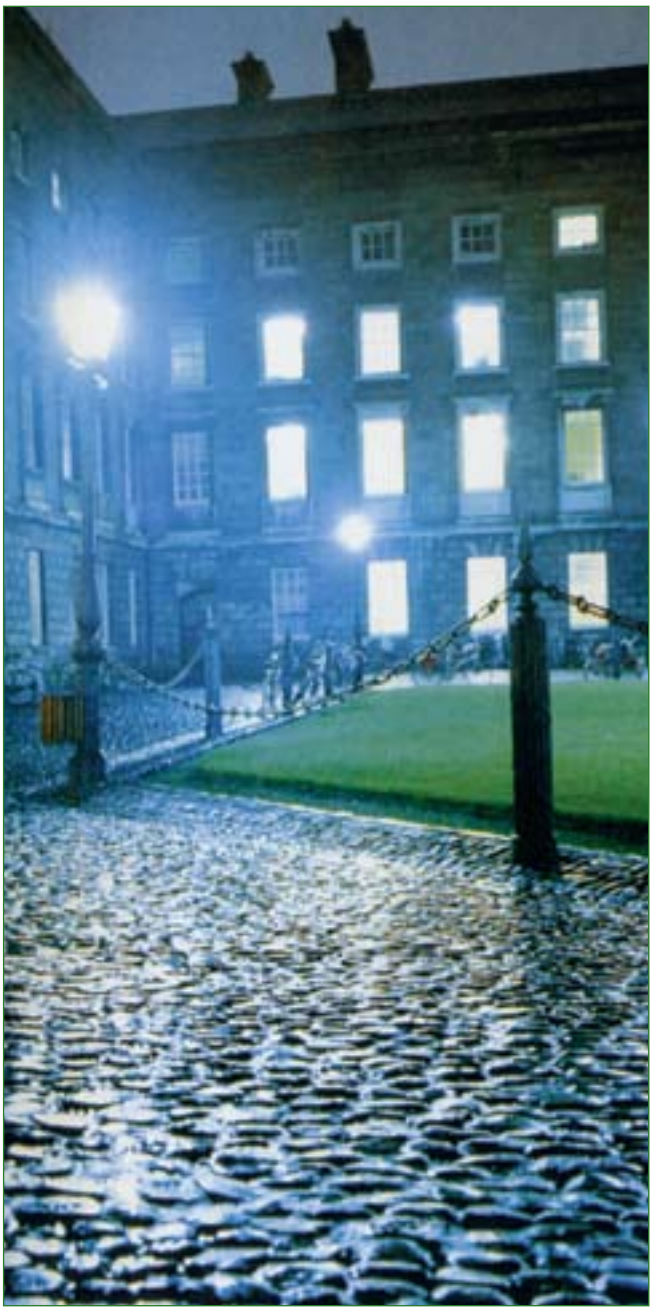
A research project in the area of either biochemistry or structural biology forms an essential part of the Senior Sophister (fourth) year. Examples of research areas from which topics may be chosen include the structural biology of cell signalling, rational drug design, cytoskeleton, cancer, neurobiology, molecular and cellular parasitology, viral evasion mechanisms, cell signalling, metabolism, the immune system and control of cell death.

Career opportunities

This course equips you to work in all major aspects of biochemistry, and molecular biology. You may decide to continue your studies at the postgraduate level and subsequently take up a career in industrial, medical or academic research. Alternatively, you will be qualified to work in the pharmaceutical industry in the area of structure-based drug design. Recent graduates have also opted for careers in teaching, information systems, communications and management, and have even crossed over into areas such as accountancy, law and merchant banking, where there is a demand for the skills developed in the biological and chemical sciences.

Further information

www.tcd.ie/Biochemistry
Tel: + 353 1 896 1098



Botany

Students who wish to study botany apply to the science degree (TR071) and may select botany as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisite: biology

Senior Freshman (second year) prerequisite: biology II

For details of the first two years of the science course, including entry requirements, see pp 149-151.

What is botany?

Botany is the scientific study of plants – in the field, in the botanic garden and in laboratory situations. Plants include the largest forest trees, single-celled algae of fresh and marine waters, multi-cellular seaweeds, and yeasts and moulds.

The study of plants is of vital importance; they are the source of all the food we eat, all the oxygen we breathe, most of the medicines we use, the timbers and plant fibres which still shelter, warm and clothe us and are core to the understanding of the processes of global climate change. Human manipulation of plants in the future will provide food for an expanding human population whilst conserving the biodiversity of living organisms and integrity of habitats.

What will you study?

Trinity specialises in the study of the evolution and conservation of all forms of plant life, their response to global climate changes both in Europe and the tropics and ecology.

Courses include:

- Plant biodiversity and conservation
- Woodland and grassland ecology
- Plant physiology and global climate change
- Tropical ecology
- Plant molecular biology
- Pollination biology

The laboratories and greenhouses on Trinity campus, the College Botanic Garden and the internationally recognised Herbarium support teaching. Most courses are derived from active research lines and emphasis is placed on your own research project in the Senior Sophister (fourth) year.

All students are given the opportunity to participate in field trips: most trips are based within Europe, but trips to the tropics are sometimes arranged.

Career opportunities

When you graduate you can move directly into a career related to plant biology, such as nature conservation, environmental consultancy, agricultural research or applied microbiology. Alternatively, you might decide to go on to take a higher degree in Trinity or elsewhere. The skills you acquire in the Sophister (third and fourth) years are also widely applicable in business and industry.

Further information

tcd.ie/Botany
Tel: + 353 1 896 1274

Chemistry

Students who wish to study chemistry apply to the science degree (TR071) and may select chemistry as their specialist area for the 3rd and 4th years

Junior Freshman (first) year prerequisite: chemistry

Senior Freshman (second year) prerequisite: chemistry

For details of the first two years of the science course, including entry requirements, see pages 149-151.

Chemistry is also an important part of the following courses:

TR074: Chemistry with molecular modelling – pg 165.

TR075: Medicinal chemistry – pg 169.

TR076: Physics and chemistry of advanced materials – pg 170.

What is chemistry?

Chemistry is a central science. Without it, many modern disciplines such as materials science, molecular biology and environmental science would not be possible. Chemists are involved in developing novel target compounds for applications as diverse as pharmaceuticals and drugs, photo- and electro-responsive materials, and polymers and catalysts.

What will you study?

Junior Sophister (third year) courses will cover the three main areas:

- **Inorganic chemistry** – organometallic chemistry, catalysis, group theory, bio-inorganic chemistry, spectroscopic methods, inorganic polymers
- **Organic chemistry** – organic synthesis, spectroscopy, heterocyclic chemistry, reaction mechanisms, amino acid and peptide synthesis
- **Physical chemistry** – macromolecules and interfacial chemistry, spectroscopy, quantum chemistry, kinetics, electrochemistry, thermodynamics, chemisorption and catalysis

In addition there are courses on environmental chemistry, computer programming, maths and physics, and you have the option of taking supplementary courses from other disciplines.

Lectures are complemented by laboratory classes where you will learn more sophisticated preparative chemistry and will also be able to carry out your own spectroscopic analysis and computer-based modelling.

In the Senior Sophister (fourth) year, lectures consist of core fundamental subjects and an extensive range of optional courses. The practical component of this year is an extended research project which you will carry out in Michaelmas term. This may be done in Trinity or in an advanced industrial or academic laboratory abroad.

Study abroad

Trinity has exchange agreements with a number of other universities. Centres where students have completed their research projects in recent years have included Vienna, Berlin, Bologna, Toulouse and Utrecht in Europe and McGill and Duke universities in North America. The areas of research have ranged from cancer chemotherapy and DNA chemistry, through device fabrication and materials processing, to homogeneous catalysis and supramolecular chemistry.

Career opportunities

The chemical and pharmaceutical industries, which contribute some 20% to Ireland's exports, are excellent employers of Trinity graduates. Patent offices, government advisory and information services, libraries, public analytical laboratories, schools and third level institutions all employ chemists. Or you may decide to carry out postgraduate research leading to a higher degree. Other equally successful routes graduates have taken in the past include careers in the business and financial services sectors, and in management.

Further information

tcd.ie/Chemistry
Tel: + 353 1 896 2040

Environmental sciences

Students who wish to study environmental sciences apply to the science degree (TR071) and may select environmental sciences as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisite: biology

Senior Freshman (second year) prerequisite: biology II

For details of the first two years of the science course, including entry requirements, see pp. 149-151.

What are environmental sciences?

Environmental sciences primarily aim to understand and mitigate the effects of human population on natural systems and processes. Because this involves confronting major national and global issues, it requires the integration of many scientific disciplines: Chemistry, Geography, Geology and Zoology contribute to this course.

What will you study?

Teaching is by lecture, seminar, practical laboratory and fieldwork classes in areas such as:

- Environmental management
- Planning
- Water technology
- Global environmental change
- Environmental chemistry

Joint modules with other disciplines include bioindicators and pollution, biometeorology, groundwater quality and ecology.

In the Senior Sophister (fourth) year you will research and write a thesis on an environmental project. In the past, students have undertaken projects on air pollution, waste management, restoration ecology, water quality, habitat management and greenhouse gas emissions.

Career opportunities

As a graduate in this area you will be able to take advantage of the worldwide demand generated by increasing environmental awareness. Many graduates move straight into environmental consultancy or are working with regulatory authorities and County Councils. The course also provides an ideal background for taking a higher degree or pursuing a career in business or industry.

Further information

tcd.ie/Centre_for_the_Environment
Tel: + 353 1 896 1638

Genetics

Students who wish to study plant, human and other animal genetics apply to the science degree (TR071) and may select genetics as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: chemistry + physics or biology

Senior Freshman (second year) prerequisite: biology I

For details of the first two years of the science course, including entry requirements, see pages 149-151.

Alternatively, to study human genetics exclusively students should apply to course TR073 – Human genetics see page 166.

What is genetics?

Genetics is the science of heredity. It is central to biology, and is increasingly important in modern medicine. Reflecting this, the genetics course covers a wide field and all major groups of organisms.

What will you study?

Courses cover the molecular genetics of bacteria and viruses, man, and other animals and plants.

- Developmental genetics: investigates how different genes in different cells control the construction and growth of an organism.
- Population genetics: deals with genetic variation in populations and the role of this variation in evolution.
- Neurogenetics: studies how genes control the growth and interconnection of neurons in the brain.
- Bioinformatics and evolutionary genetics: investigates evolutionary relationships between organisms and the processes that drive evolution by mining the DNA sequence databases

Other areas you will study include plant genetics, quantitative genetics, bacterial genetics and medical genetics, where molecular and analytical approaches are used to investigate the basis of inherited human diseases such as hereditary blindness, cystic fibrosis, and certain types of cancers.

In the Senior Sophister (fourth) year, you will be able to specialise in areas of particular interest, and will carry out an original research project in an area such as: hereditary blindness, cell death, bacterial stress responses or plant genetics. Specialist lecture courses include cancer genetics, genetics of vision, behavioural genetics and human evolutionary genetics.

Career opportunities

Many genetics graduates go on to careers in academic or industrial research beginning with postgraduate study. Opportunities also exist in biotechnology and pharmaceutical companies, agricultural organisations, medical or clinical diagnostic laboratories, public health and epidemiology programmes, and in teaching. Genetic counselling is a rapidly expanding field that might also interest you. Alternatively, you may go into a career such as patent law, science journalism, accountancy or banking.

Further information

tcd.ie/Genetics
Tel: + 353 1 896 1140

Geography

Students who wish to study geography apply to the science degree (TR071) and may select geography as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisite: geography/ geology

Senior Freshman (second year) prerequisite: geography

For details of the first two years of the science course, including entry requirements, see pp 149-151.

Alternatively, geography may be combined with one other subject from an arts or social science discipline within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are usually studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects. For subjects that combine with geography see p.31.

What is geography?

Geography deals with the distribution of physical and human features over the Earth's surface, with the relationships between people and between people and their environment, and with the nature of landscapes and places: as the geographer Felix Driver has recently emphasised, "Geography is a subject which has a reputation for being down to earth; its focus is on the real world, its landscapes and the way it is used". Geographers have made a major contribution to understanding the nature of the world and the processes of change that impact on environments and societies, and how these processes and their impacts have changed over time.

What will you study?

The Junior Freshman (first year) Introduction to Geography course (page 151) aims to give a flavour of the breadth of geography, and in particular those aspects of the discipline that are covered in Senior Freshman (second) and Sophister (third and fourth) years.

Senior Freshman geography courses build on material covered in the first year, examining issues relating to cultural, economic and historical geography, and to natural and human-modified environmental processes and systems. In addition, the Senior Freshman courses Geographical methods and Geographical methods – practicals provide an introduction to mapping, computer-based geographical information systems (GIS), statistics, surveying and satellite remote sensing. Senior Freshman courses in geography are supported by fieldwork and tutorials.

In the Sophister (third and fourth) years, students take three compulsory courses:

- Introduction to research
- History and philosophy of geography
- Residential field course (usually held overseas)

In addition you will be able to choose from a wide range of specialised, research-based courses, including courses offered by related disciplines such as botany, economics, geology and sociology.

Optional courses in geography include:

- Caribbean environments and development
- Climate change
- Coastal processes and management
- Comparative historical geography
- Contested environments
- Environmental planning
- Exploitation of natural resources
- North America
- Topics in cultural geography
- Transportation planning
- Urban analysis
- Water resources

Several of the Sophister year options require field and laboratory work.

Did you know?

During the academic year 2004-5, Sophister year geography students were involved in academic staff led fieldwork in Iceland, Mallorca and Zambia, and in making digital video documentaries as part of their assessed work.

Assessment

Web-based assessments form an important part of the Introduction to Geography course. The assessments have been designed to facilitate knowledge retention and to develop problem-solving skills among the students. One of the assessments – the Long-term WebQuest – provides an exemplar of how geography can provide a framework through which multidisciplinary knowledge can be combined to generate greater understanding of, and hopefully more effective responses to, real world issues. In later years you will be assessed by a combination of continuous assessment and end-of-year examination.

Study abroad

There are opportunities for students to spend the third year studying abroad at Exeter, Bordeaux, Utrecht or Stockholm universities.

Career opportunities

A wide range of career options is potentially available to geography graduates. The combination of a broad-based discipline and training in highly relevant transferable skills is valued in today's job market, where adaptability and flexibility are widely regarded as assets.

Further information

tcd.ie/Geography
Tel: + 353 1 896 1576

Geology

Students who wish to study geology apply to the science degree (TR071) and may select geology as their specialist area for the 3rd and 4th years.

Senior Freshman (second year) prerequisite: geology

For details of the first two years of the science course, including entry requirements, see pages 149-151.

What is geology?

Geology is the science of the Earth. It investigates minerals and rocks, the internal and external processes affecting these, and the evolution of the Earth and its living organisms. It embraces the study of such diverse topics as dinosaurs, volcanoes, meteorites and earthquakes.

What will you study?

For details of the topics covered in the Junior and Senior Freshman (first and second) years see page 150-151.

In the Junior Sophister (third) year you will undertake detailed studies of the three main kinds of rock – igneous, sedimentary and metamorphic – and their response to enormous forces in the Earth which cause them to bend, buckle and crack. You will also study the measurement of geological time, the reconstruction of ancient environments and the evolution of life. You will learn skills in computing, statistics and rock analysis. Examinations take place in April, leaving scope in the third term for a laboratory project and fieldwork. During the summer before the Senior Sophister (fourth) year you will spend six weeks working in pairs in the field, preparing a geological map for your honors thesis.

In the Senior Sophister (fourth) year you will take three compulsory courses:

- A review of the geology of Ireland
- An analysis of catastrophic events in the Earth's history
- Geophysics

You will also select ten to fifteen optional subjects from a range covering all the main fields of geology. Optional subjects include:

- Palaeontology/Palynology
- Geodynamics
- Petroleum geology
- Hydrogeology and engineering geology
- Metamorphic and igneous rocks
- Economic geology
- The early solar system
- Earth history
- Tectonic geomorphology

Teaching ends after two terms leaving the third term for a field course (usually held in Spain) and revision.

Did you know?

As a student of geology, you will complete a week-long field trip to an active volcanic region in third year.

Career opportunities

Recent graduates have found professional career opportunities with oil and mining companies, civil engineering firms, geological and environmental consultancies, organisations based in computing and information systems, government geological surveys, and in the teaching and accountancy professions.

Further information

tcd.ie/Geology

Microbiology

Students who wish to study microbiology apply to the science degree (TR071) and may select microbiology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: chemistry plus physics or biology

Senior Freshman (second year) prerequisite: biology I

For details of the first two years of the science course, including entry requirements, see pp. 149-151.

What is microbiology?

Microbiology investigates the life processes of microorganisms (such as protozoa, bacteria, fungi and viruses), their beneficial or detrimental effects on plants, animals, man and the environment, and their biotechnological uses. A microbiologist studies microbial processes at the cellular and molecular level.

What will you study?

Topics include:

- Microbial and molecular genetics
- Bacterial physiology
- Biomembranes and cell surfaces
- Virology
- Molecular biotechnology
- Microbial genome structure & gene regulation
- Microbial pathogenicity
- Applied and environmental microbiology
- Molecular protozoology
- Molecular biology of yeasts
- Medical and clinical microbiology
- Antimicrobial and antibiotic agents

Microbiology is closely related to microbial genetics and biochemistry and so you will take complementary courses from these disciplines. Laboratory training covers the safe handling of pathogenic microorganisms, separation of their components and products, research technologies, genetic analysis and biotechnological techniques.

In the Senior Sophister (fourth) year, all students take a core course that covers molecular and cell biology, microbial pathogenicity, and applied and environmental microbiology. Optional courses review selected topics at the cutting edge of knowledge and cover such diverse areas as:

- Gene regulation and expression
- Bacterial cell surfaces
- Gene expression in eukaryotes
- Cellular microbiology
- Molecular pathogenesis of bacterial infection
- Legislation, standards system and issues in current microbiological practice
- Pathogenesis of protozoal diseases
- Yeast biology
- Clinical microbiology
- Emerging pathogens

Each student conducts an original research project under the supervision of a research group.

Career opportunities

Graduates in microbiology find employment in pharmaceutical and medical research laboratories, as quality control officers in the preparation of drugs, in food processing and packaging, or in public utilities. Such employment may involve working with the newer biotechnologies and using microorganisms for the commercial production of drugs, enzymes, antibiotics, vaccines and agricultural products. Many graduates also go on to study for a higher research degree.

Further information

tcd.ie/Microbiology
Tel: + 353 1 896 1190

Neuroscience

Students who wish to study neuroscience apply to the science degree (TR071) and may select neuroscience as their specialist area after the second year.

Junior Freshman (first) year prerequisites: chemistry, biology

Senior Freshman (second year) prerequisite: biology I, biology II

For details of the first two years of the science course, including entry requirements, see pages 149-151.

What is neuroscience?

Neuroscience is discipline concerned with the scientific study of nervous system in health and disease. It probes the intricate machinery of the nervous system in an attempt to understand how we think, move, perceive, learn and remember. Research in the neurosciences is of considerable importance in medicine, considering the debilitating and costly effects of neurological and psychiatric disease. In this regard, a major goal of modern neuroscience research is to elucidate the underlying causes, and to produce more effective treatments for major brain diseases such as Multiple Sclerosis, Alzheimer's Disease, Parkinson's Disease, Schizophrenia and Depression.

What will you study?

Neuroscience links neurobiology with cognitive science, and as a result modules are provided by several Schools within the Faculties of Health Sciences, Science, and Social and Human Sciences. The course involves in-depth instruction in the fundamentals of modern molecular and cellular biology, as well as on the structure and operation of the nervous system.

Other modules focus on the development of the nervous system, its response to injury and disease, the relationship of the brain to behaviour, imaging the brain, and the drug treatment of brain disorders. You will also be trained in scientific methodology and experimental design, data handling and resource skills.

Junior Sophister (third) year courses include:

- Neurophysiology
- Neuroanatomy
- Neurochemistry
- Cell physiology
- Signal transduction
- Neurophysics and Neuroimaging technology
- Introductory psychology for neuroscience
- Introduction to neuroscience and behaviour
- Gene structure and expression
- Core concepts in immunology
- Developmental biology
- Physiological pharmacology
- Data handling, experimental design and statistics
- Basic techniques
- Seminars in neuroscience
- Applied molecular biology
- Techniques in neuroscience
- Journal club

Senior Sophister (fourth) year courses include:

- Cellular neurophysiology
- Neurochemistry
- Molecular neurobiology
- Neurodegenerative diseases
- Neuroimmunology
- Neuropharmacology
- Neuropsychology
- Neurogenetics
- Integrative neuroscience
- Journal club

An important part of your final year is a major research project that is carried out in one of the several neuroscience research groups within Trinity College Institute of Neuroscience (**www.neuroscience.tcd.ie**). The research project will be preceded by a literature review, and will lead to a dissertation.

Research projects are currently available in the following research areas: Neurobiology of Alzheimer's disease, Neurotoxicity of MDMA ("Ecstasy") and cannabis, Neurobiology of memory and learning, Neuroinflammation, Neurobiology of Parkinson's disease, Molecular biology of spinal cord regeneration, Neurobiology of depression, Human sleep research.

Career opportunities

As a graduate of neuroscience, you can expect to find employment in a wide range of jobs, using your general scientific training as well as your specialist skills. You may study for a higher degree in neuroscience, biological or psychological research, and pursue a research career in an academic, government, pharmaceutical, biotechnology or medical research organisation. If you do not want a research career, the course provides transferable skills suitable for a wide variety of careers in teaching, business, management and industry. Some graduates also go on to take professional degrees in medicine or allied health related sciences.

Further information

tcd.ie/Neuroscience
Tel: + 353 1 896 8484

Physics, physics and astrophysics, physics and computer simulation

Students who wish to study physics, physics and astrophysics or physics and computer simulation apply to the science degree (TR071) and may select one of these three courses as their specialist subject for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: mathematics, physics

Senior Freshman (second year) prerequisite: mathematics, physics

For details of the first two years of the science course, including entry requirements, see pp 149-151.

Physics is also an important part of the following courses:

TR035: Theoretical physics – p. 172.

TR076: Physics and chemistry of advanced materials – p. 170.

Physics

Physics explores our universe in all its diversity – from particles to planets, from crystals to chaos, from quanta to quasars and from superstrings to superconductors. Its applications are to be found in modern communications, in computers, lasers and many other technologies of vital importance. A physics degree will help you develop flexible skills in theory, data analysis and instrumentation.

Physics at Trinity enjoys a worldwide reputation, and provides an exceptionally stimulating environment for study and for subsequent postgraduate research. In the Senior Sophister (fourth) year you will carry out a three-month research project in a modern research laboratory either in Trinity or at another institution in Ireland or abroad, and many find this part of the course particularly rewarding.

Studies in physics cover experimental and theoretical training in core subjects, including:

- Mechanics and special relativity
- Electromagnetism
- Quantum mechanics
- Laser and modern optics
- Solid state physics

You will also take specialist courses in areas such as nanoscience, astrophysics, nuclear and elementary particle physics, superconductivity and computer modelling.

Physics and astrophysics

Since before the dawn of human civilisation man has gazed in wonder at the night sky. The exploration of our solar system and the universe beyond continues to fascinate us. Astrophysics is still a major part of human endeavour in science.

At the end of the Senior Freshman (second) year, you may choose to study for a degree in physics and astrophysics by substituting roughly one quarter of the general physics courses with astrophysics courses in the final two years.

In the third year the astrophysics courses range over modern astronomical instrumentation, spectroscopy, space plasmas, stellar evolution, galaxies and an introduction to general relativity and modern cosmology. There is hands-on experience of astrophysical observation in the third year laboratory, using optical and radio telescopes.

In the final year astrophysics lectures provide a more in-depth study of our own solar system, planetary systems around other stars, interstellar matter and galaxies. There is also a focus on modern developments in astronomy, such as dark matter, black holes and supernovae. Final year students carry out either a physics or an astrophysics research project with the opportunity of working at an observatory in Ireland, UK, Canary Islands or Hawaii.

Physics and computer simulation

Computer simulation is used by physicists to gain a deeper understanding of both experiments and theoretical ideas through numerical computation and data visualisation. It is also widely used in other fields such as film production or weather forecasting. If you enjoy mathematics and computing and applying them to understanding the world around you

and you have successfully completed two years of physics study in the TR071 degree, you may opt to study the physics and computer simulation degree course for the final two years of your degree. You will carry out your final year project working with a computational physics research group. The numerical and computational techniques you will learn to use, combined with your knowledge of physics at the end of your degree course, will open up a wide range of career possibilities for you.

Career opportunities

Physics graduates are increasingly in demand in Ireland and elsewhere in modern high technology industries, as well as in teaching. You may also find a career in academic institutions, government and industrial research organisations and production facilities, or the meteorological service. There are diverse opportunities in electronics, telecommunications, biophysics, hospital and health physics, automation and computing, as well as in a wide range of careers for which employers value the skills of problem-solving that come with the degree. It could also be a useful primary training for a legal, managerial or actuarial career for which a technical background is very attractive.

Further information

tcd.ie/Physics
Tel: + 353 1 896 1675

Physiology

Students who wish to study physiology apply to the science degree (TR071) and may select physiology as their specialist area for the 3rd and 4th years.

Senior Freshman (second year) prerequisite: biology I, biology II

For details of the first two years of the science course, including entry requirements, see pp 149-151.

What is physiology?

Physiology is the study of how cells work, how they co-operate in organs like the heart or brain and how these organs function together in the body as a whole. Because knowing how the body works is essential for understanding how it goes wrong in sickness and disease, physiology is the scientific basis of human and animal medicine, as well as being a central part of disciplines like zoology and agricultural science.

What will you study?

In the Physiology Department at Trinity, which is part of the School of Medicine, we focus on human physiology and how it is affected by disease, although a comprehensive understanding of Physiology will also involve studying comparisons in mammalian species other than man. There is a particular emphasis on themes which reflect major research interests in Trinity, including brain function and responses to physical exercise. As a student of physiology you will be provided with a detailed understanding of a range of cell and organ systems, and will receive training in scientific methodology, experimental design, data analysis and resource skills.

During the second half of the Senior Sophister (fourth) year you will undertake an individual research project. This project will be based in Trinity or in one of its associated hospital departments and will include a literature survey and production of a written dissertation. Some typical recent research projects have looked at the toxic effects of cannabis on brain cells, gastric motility in patients with pancreatitis, respiratory function in lung disease, the cellular mechanisms of memory formation, cardiovascular costs of athletic training and muscle performance after different warm-up protocols.

Career opportunities

When you graduate you will be able to use your general scientific training and specialised knowledge of physiology to find employment in a wide variety of jobs. You may pursue further training in physiology and become a research scientist in a hospital, the pharmaceutical industry, a government agency or a university. Or you may undertake further study and work in a health-related field such as medicine, physiotherapy, pharmacy or fitness counselling.

Further information

tcd.ie/Physiology
Tel: + 353 1 896 1970

Zoology

Students who wish to study zoology apply to the science degree (TR071) and may select zoology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: biology

Senior Freshman (second year) prerequisite: biology I, biology II

For details of the first two years of the science course, including entry requirements, see pages 149-151.

What is zoology?

Zoology is the scientific study of the animal kingdom, along with its evolution, diversity and environment. This involves building knowledge of both the structure of different kinds of animals and how they function, and the complex relationships that govern how animals relate to each other and their surroundings. Zoology provides fundamental information on three areas of our society: the environment, food production and human health.

What will you study?

The course highlights the major concerns of modern zoology in relation to environmental and medical biology, and introduces you to cell biological and other analytical techniques, fieldwork and computer-aided data handling procedures.

Work in the Junior Sophister (third) year provides a broad overview of zoology and includes core courses in:

- Ecology
- Physiology
- Animal behaviour
- Biodiversity
- Entomology
- Developmental biology
- Parasitology
- Applied molecular biology

There are also additional options selected from the environmental or medical zoology programmes.

A lot of time in the Senior Sophister (fourth) year will be given over to a research project and tutorials in a specialist area selected from freshwater biology, marine biology, wildlife biology, evolution and behaviour, molecular biology, developmental biology and parasitology.

Career opportunities

Many graduates are pursuing academic and research careers, in Ireland and overseas. Others have entered the agricultural and fisheries sectors, the wildlife service, and aid agencies, as advisers and technical experts and as inspectors and managers. Trinity zoology graduates have furthermore taken up publishing of wildlife magazines and educational literature, film making and careers in the media, fish farming, computer software development, second and third level teaching, museum work, tourism, environmental lobbying with organisations such as Greenpeace, environmental consultancy and wildlife conservation and management.

Further information

tcd.ie/Zoology
Tel: + 353 1 896 1366

Chemistry with molecular modelling

COURSE CODE:	**TR074**	
PLACES 2006:	**15**	
POINTS 2005:	**410**	
Special entry requirements		
Leaving Certificate	HC3	Mathematics
	HC3	In one of physics, chemistry, physics/ chemistry or biology
GCE A-Level	Grade C	Mathematics
	Grade C	In one of physics, chemistry or biology

What is molecular modelling?

Molecular modelling is the use of computer modelling to understand and explore chemistry. Advancements in molecular modelling have lead to an explosive growth in a range of applications. This course focuses on modelling the structure and reactivity of molecules and solids including:

- The simulation of the structure and properties of materials including organic molecules, semiconductors, catalysts, DNA, proteins, etc.
- The modelling of how electrons are arranged in materials and behave during chemical reactions
- Computational medicinal chemistry and drug design

Is this the right course for me?

The programme will suit you well if you want to obtain a chemistry degree but are also interested in learning to use molecular modelling to understand and solve chemical problems in a range of areas such as drug design and materials chemistry.

Course overview

The course is based on the Moderatorship in Chemistry (see pg 155).

Core components of the chemistry degree are taken along with special molecular modelling courses, practical work and project work.

Freshman years

You will study the same foundation courses in chemistry and mathematics and one of biology or physics as students in the science course – TR071 (see pages 150-151). However, some of the experimental chemistry laboratory class time is spent in computer laboratories. Special lectures are given to introduce the concepts of molecular modelling to highlight applications.

In the Freshman years you will typically have 19 hours of supervised study in lectures and tutorials and will spend around 6 hours in labs each week.

The Sophister years

In the third and fourth years you will take core courses in chemistry with additional courses in molecular modelling including general molecular modelling, modelling protein structure, drug design, molecular dynamics, modelling in solid state materials chemistry.

In the Junior Sophister (third) year, about half of your laboratory class time is spent in computer laboratories performing computational experiments using molecular modelling.

Study abroad

As a Senior Sophister (fourth year student) you will undertake a computational project. Centres where students can complete their research projects include Vienna, Berlin, Madrid, Toulouse and Utrecht in Europe and McGill and Duke universities in North America.

Career opportunities

The degree is fundamentally chemistry based and so the opportunities available to regular chemistry graduates remain open. In addition the specially developed computational skills make graduates an attractive prospect for employers both within computing environments and in other professions. Career opportunities range from teaching and research to working in the chemical and pharmaceutical industries, one of the largest and fastest growing sectors of the Irish economy. Chemists also fit comfortably into management and business. Examples of industries where people are employed directly in scientific computing include: pharmaceutical (computational drug design), chemical (developing catalysts), materials chemistry (semi-conductors/magnetic materials), financial and meteorology.

Further information

tcd.ie/Chemistry/Computational
Email: **watsong@tcd.ie**
Tel: + 353 1 896 1357

Human genetics

COURSE CODE: TR073

PLACES 2006: 10

POINTS 2005: 545

Special entry requirements

Leaving Certificate	OC3 or HD3	Mathematics
	HC3	In two of physics, biology, chemistry, physics/chemistry, mathematics and applied mathematics
GCSE	Grade B	Mathematics
GCE A-Level	Grade C	In two of physics, biology, chemistry, mathematics and applied mathematics

Combinations not permitted:

Physics/chemistry with physics or chemistry
Applied mathematics with mathematics

Students who apply for the general entry science course (TR071) have the option of selecting genetics as their specialist subject for the Sophister (third and fourth) years of the course.

See page 157.

Human genetics (TR073) focuses on the genes of humans while the genetics option in science examines plant, human and other animal genes.

What is human genetics?

Human genetics is the study of genes – or heredity – in humans. It also examines the effects of these genes on both individuals and societies. It has developed rapidly in the last decade as new technology has made it possible to study genes in much greater detail. Examples of remarkable advances in knowledge include:

- The discovery of the molecular basis of many inherited disorders
- The ability to trace the evolution of mankind
- The application of DNA finger-printing to forensic science

Is this the right course for you?

Human genetics is a knowledge-driven, dynamic and exciting field. As most graduates of this programme go on to careers in research you must be prepared to take this route as a career option.

Course overview

This course provides you with a strong base in the basic sciences of biology, chemistry and mathematics, as well as in the classical principles of genetics – molecular, population and quantitative genetics, bioinformatics and molecular evolution.

Over the four-year period of your degree programme, the course will also demonstrate the importance of studies in model organisms, especially the mouse. Seminar and tutorial programmes, organised with staff from various disciplines, are an integral part of your studies, and encompass such subjects as the interactions between genetics and the social sciences, ethics, linguistics, philosophy and law, and the general relationship between genes, society and culture.

The Freshman years

In the Junior and Senior Freshman (first two) years you will concentrate on the areas of biology, chemistry and mathematics, and will also be introduced to the principles of genetics.

In each of the first two years you will take some of the same courses as science students: biology, chemistry and mathematics in the Junior Freshman (first) year and biology I, chemistry and mathematics in the Senior Freshman (second) year – see pages 150-151. In addition you will have a weekly genetics tutorial.

The Sophister years

In the 3rd and 4th years you will undertake specialised studies in areas such as:

- Recombinant DNA
- Molecular evolution
- Population genetics
- Computer programming
- Mutation

You may take optional courses from closely related science disciplines such as biochemistry and microbiology. In the Senior Sophister (fourth) year, you will also carry out research projects and write reviews on questions in human genetics.

Study abroad

At the end of the Junior Sophister (third) year, you may be able to spend the summer months working in a human genetics research laboratory. This is often in the USA, with some financial assistance provided.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

Career opportunities

Most likely, you will go on to study for a higher degree or to a career in research, whether in a university, research institute, or in industry.

Further information

tcd.ie/Genetics
Tel: + 353 1 896 1140

Mathematics

COURSE CODES:	**TR031**	**TR001 (TSM)**
PLACES 2006:	**30**	**10**
POINTS 2005:	**410**	**510**

Special entry requirements

Leaving Certificate	HB3	Mathematics
GCE A-Level	Grade B	Mathematics

Mathematics may be studied as a single honor course (TR031), or, alternatively, may be combined with one other subject from an arts or social science discipline within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. Both subjects are usually studied for three years and one subject only is studied in the fourth and final year. An honors degree is awarded in both subjects.

Single honor and TSM students follow the same mathematics courses. However, while TSM students cover all the principal areas, the workload is less intense than that of the single honor programme.

For subjects that combine with mathematics see page 31.

See also

TR035 – Theoretical physics (pg 172).

Overview

The course aims to provide you with a firm foundation in all the basic areas of mathematics and then allow you to specialise in the areas that most suit your interests and talents. Mathematics is an excellent choice for anyone hoping to meet the demand for mathematics graduates in the current job market which values numeracy, ability in abstract reasoning and the skill to turn ideas into methods.

Is this the right course for you?

If you have a natural ability in mathematics and are genuinely interested in applying mathematical solutions to problem solving, then this course will suit you well. It is also a great start for a career in actuarial work, finance or accounting, although these will require further training.

Course content

This four-year programme is designed to provide you with a broad mathematical training that will, in turn, allow you to work in any environment that requires strong numerical and logical skills.

The courses offered can be grouped into four areas:

- Pure mathematics which explores basic concepts and abstract theories
- Applied and computational mathematics to solve practical problems
- The mathematics of theoretical physics
- Statistical models and methodology

All students take common courses in first year, and continue with core courses in algebra, analysis and mathematical methods in second year. As a Sophister (third and fourth year student) you will be able to specialise in the areas that appeal most to you.

The Freshman years

In Junior Freshman (First Year) there are two core courses. Linear Algebra and Analysis.

These courses are designed to teach the Theory and the Applications of each subject so they are quite intensive.

In addition students choose two courses from:

Classical mechanics

Introduction to statistics: concepts of statistical inference and related probability theory; elementary statistical methods and applications; statistical software and data analysis

Introduction to computer architecture and programming: programming in a high level language; numerical methods (this will include practical work)

In the Senior Freshman (second) year you will continue to study algebra and analysis. In addition you will select two subjects of your choice from a range that explore the Junior Freshman topics in greater depth. This allows you to begin tailoring the degree to your own strengths and areas of interest.

The Sophister years

In the Sophister (third and fourth) years you will have the opportunity to choose either five or six subjects from a selection of over 20 wide-ranging options. Many subjects cover topics from the first and second year, but additional possibilities include computer engineering, mathematical economics, cryptography and computer-aided design.

One of the optional subjects may be replaced by an independent research project conducted under the supervision of a member of staff.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examination, with all work undertaken during your last two years counting towards your final degree result.

Study abroad

As part of the SOCRATES exchange programme, you can opt to spend the Junior Sophister (third) year in Athens, Darmstadt, Leuven or Durham.

Career opportunities

A degree in mathematics opens up the possibility of a career in a variety of industries and sectors. Graduates have found employment in computing, where mathematics skills have immediate and practical application. The financial services and internet security sectors are also common first destinations for graduates. Other options include statistics, teaching, accountancy, actuarial work, finance, and all areas of pure and applied mathematics. Many of these involve further study or intensive research.

Further information

www.maths.tcd.ie
Tel: + 353 1 896 1949

Medicinal chemistry

COURSE CODE: **TR075**

PLACES 2006: **25**

POINTS 2005: **465**

Special entry requirements

Leaving Certificate	OC3 or HD3	Mathematics
	HC3	In two of physics, chemistry, biology, physics/chemistry, mathematics, applied mathematics, geography, geology or agricultural science
GCSE	Grade B	Mathematics
GCE A-Level	Grade C	In two of physics, chemistry, biology, mathematics, geology, geography or applied mathematics

Combinations not permitted:

Physics/chemistry with physics or chemistry
Agricultural science with biology
Applied mathematics with mathematics

What is medicinal chemistry?

Medicinal chemists are the creative talent behind the modern pharmaceutical industry. As well as being expert chemists, they have a particular expertise in molecular design and the synthesis of drugs and the understanding of biological functions.

Is this the right course for you?

Yes, if you have a natural flair for chemistry and are simultaneously interested in developing skills and expert knowledge relevant to the rapidly growing pharmaceutical industry.

Course overview

This degree provides you with a sound general grounding in chemistry but focuses on, and extends into, topics of relevance to the design and production of new medicinal compounds and understanding their biological actions.

The Freshman years

In the first two years you will follow the science (TR071) programme, taking chemistry, biology and mathematics in the Junior Freshman (first) year, and chemistry, biology I and either biology II or mathematics in the Senior Freshman (second) year – see pages 149-151. In addition, special sessions held specifically for your group will introduce you to the ideas and techniques of medicinal chemistry.

The Sophister years

In the Junior and Senior Sophister (third and fourth) years the course will branch off into the more specialised aspects of medicinal chemistry, although again there will be considerable overlap with the chemistry programme (pg 155).

The overlap will be mainly in organic chemistry, with less emphasis being placed on physical chemistry and inorganic chemistry in order to allow for the introduction of the new medicinal chemistry units.

In the Junior Sophister (third) year, your special medicinal chemistry courses will include:

- Basic principles of medicinal chemistry
- Pharmacology (how drugs interact with the body)
- Drug design (how chemists design new drugs for specific diseases)
- Anti-microbial and anti-infective agents (compounds that can combat the microorganisms that cause disease)
- Anti-malarial chemistry (study of the development of new drugs in this area)
- Steroid drugs (study of drugs based on the steroid skeleton)
- Industrial chemistry (short course on medicinal chemistry in industry)

In the Senior Sophister (fourth) year, you will cover the medicinal chemistry of the cardiovascular and central nervous systems, combinational chemistry and drug delivery, as well as computational medicinal chemistry and modern analytical methods. Case studies in medicinal chemistry will also feature on your programme.

Practical work in the final year will consist of a research project. This may be carried out either in Trinity under the supervision of a member of staff, in a chemistry department at an overseas university, or in a commercial laboratory.

Study abroad

To date, arrangements have been made for students to carry out their final year projects in Regensburg, Madrid, Liverpool, Copenhagen and Dalhousie (Canada) universities.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

Career opportunities

As with graduates in other types of chemistry, the skills acquired during this course will make you highly attractive to employers in a wide variety of areas. In addition to the pharmaceutical industry itself, business, finance, administration and teaching are all possibilities open to you as a graduate of medicinal chemistry.

Further information

tcd.ie/Chemistry/MedChem
Tel: + 353 1 896 3731

Physics and chemistry of advanced materials

COURSE CODE:	**TR076**	
PLACES 2006:	**20**	
POINTS 2005:	**350**	
Special entry requirements		
Leaving Certificate	OC3 or HD3	Mathematics
	HC3	In two of physics, chemistry, biology, physics/chemistry, mathematics, applied mathematics or agricultural science
GCSE	Grade B	Mathematics
GCE A-Level	Grade C	In two of physics, chemistry, biology, mathematics, or applied mathematics

What are advanced materials?

The ability to create new technologies would not be possible without the use of advanced materials. Advanced materials include superconductors, polymers, lasers and optoelectronics and they can be found in applications ranging from computers and electronics, to telecommunications and broadcasting, to airlines and healthcare.

Is this the right course for you?

This course will appeal to you if you are interested in science and have a strong desire to apply your scientific skills to industries and technologies that are shaping the future of the 21st century.

Did you know?

The new Sami Nasr Institute of Advanced Materials at Trinity is an exemplary interdisciplinary research centre pioneered by physics together with chemistry and electronic engineering.

Course overview

This degree will teach you how to use and apply the principles of chemistry and physics to solve practical problems associated with the development of new technologies. To understand how to make, develop, control and use advanced

materials you will need a thorough grounding in both chemistry and physics.

The Freshman years

In the first two years you will follow the science (TR071) programme, taking chemistry, physics and mathematics (pages 148-149). There will be special tutorials on historical and modern aspects of materials science.

You can expect to spend approximately 15 hours in lecture and tutorial classes and approximately 6 hours in laboratory classes each week.

The Sophister years

In the Sophister years (three and four), you will study specialised courses in materials physics and chemistry.

The course in the Junior Sophister (third) year includes lectures on solid state physics and chemistry, quantum mechanics, lasers, thermodynamics, electrochemistry, macromolecules, spectroscopy, group theory, materials preparation and microelectronic technology.

The practical course will introduce you to a wide range of techniques for the preparation and characterisation of modern materials.

The Senior Sophister (fourth year) course concentrates on specific topics, including more advanced solid state physics and chemistry, non-linear optics, materials for electronic and optoelectronic devices, conducting and insulating polymers and metal oxides, superconductivity, surface and interface effects, computer simulation and advanced growth techniques.

In the final year you will also carry out a research project, usually abroad in an industrial laboratory, to become familiar with the applications of advanced materials in real-life situations. Many of our students did their projects in highly innovative cutting edge research areas such as nano-technology, and smart and biomimetic materials.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

Did you know?

Many students carry out their final year project abroad, mainly in the USA, Australia, France and Germany. This allows Trinity students to develop their practical skills in materials science and to learn about different countries and cultures.

Career opportunities

This degree will provide you with a flexible qualification for employment in cutting-edge high technology industries, such as the semiconductor, polymer and optical industries. There is a great demand for students with these qualifications to keep our economy growing rapidly. There are also opportunities to carry on postgraduate study in advanced materials, a key research area in Trinity College itself.

Further information

tcd.ie/Advanced_Materials
Tel: + 353 1 896 1987

Theoretical physics

COURSE CODE: TR035

PLACES 2006: 35

POINTS 2005: 445

Special entry requirements

Leaving Certificate	HB3	In mathematics and physics
GCE A-Level	Grade B	In mathematics and physics

What is theoretical physics?

Theoretical physics explores the natural world at its most fundamental level, using mathematical theories guided by experimental investigation. For some it is the foundation for an academic career in mathematics or physics. For others it provides the basis for many career options in industry, medicine, law, finance and computing. Trinity provides a course which ranges widely across physics and mathematics. Its graduates are in demand for their technical skills and versatility.

> Physics at Trinity 'is the most active and internationally recognised department in the country'. It has an international reputation for excellence in research, with achievements in the areas of Condensed Matter and Surface Science, Phototonics and Modern Optics, Computational Physics, Magnetism and Nanotechnology.
>
> Extract from the external review of the Department of Physics, 2004

Is this the right course for you?

If you enjoy mathematics and seeing how physical theories can be developed to unlock the secrets of the universe on every scale from the quark to the Big Bang, you will be stimulated by this course. If you want to keep a wide range of options open for the future, you can do this in theoretical physics. It consistently attracts a spirited and talented class that makes the most of the Trinity experience.

Course overview

The course combines much of the mathematics and physics curricula, together with some special elements such as a project in computational physics.

In the Freshman years (one and two) the course is ⅔ maths and ⅓ physics

In the Sophister years (three and four) the course is 50% maths and 50% physics

Students can expect to spend approximately 24 hours each week in lecture, tutorial and laboratory classes.

Course content

Cosmology, astrophysics, chaos, relativity and quantum mechanics are some of the exciting topics that you will study. In the practical classes you will study the latest ideas in magnetism, superconductivity, laser technology and semiconductors.

Junior & Senior Freshman

	Junior & Senior Freshman (1st & 2nd years)	Junior Sophister (3rd year)	Senior Sophister (4th year)
	⅔ maths ⅓ physics	*½ maths ½ physics*	*½ maths ½ physics*
Maths	Algebra Analysis Mathematical methods Mechanics and computing	Electromagnetic theory Quantum mechanics Numerical simulation of physical systems You will also take one additional course from a range of subjects in theoretical physics.	Courses cover statistical physics, topics in theoretical physics, and two additional courses from a range of subjects in theoretical physics.
Physics The physics courses are divided into shorter modules, while the mathematics courses are typically longer.	Origins of modern physics The physics of sport Chaos and complexity Oscillations Optics Materials Nuclear physics Electromagnetic interactions Special relativity Astrophysics There are laboratory classes and group study projects.	Electromagnetic theory Quantum optics Statistical thermodynamics Atomic and molecular physics Nuclear physics Solid state physics Astrophysics There is also a laboratory class, and a course to develop communication skills and problem solving abilities.	Electromagnetic theory Optical materials Non-linear optics Magnetic resonance High energy physics Metal physics and superconductivity Condensed matter theory Econophysics In addition you will either complete a computational project or further experimental work.

Assessment

Continuous assessment and end-of-year examinations make up the assessment process.

Career opportunities

Many of our graduates proceed to Ph.D. degrees in leading institutions throughout the world in mathematics and experimental physics as well as theoretical physics. Alternatively, an infinite world of possibilities beckons. You might not have thought that the technical manager in charge of the main European production line for M&M's could be a graduate in theoretical physics from Trinity, for example. The broad scientific background and skills that the course develops are in great demand by employers in diverse areas including patent law, journalism, weather forecasting, telecommunications, medical physics, information technology and teaching.

Further information

Visit **www.maths.tcd.ie** or **tcd.ie/Physics**

Alert List – 2007

TR027 – Irish Studies: new course

This is an exciting new interdisciplinary programme which has been designed by the Irish, English and History Departments to give students the opportunity to study in depth the language, literature, history and culture of Ireland. The purpose of the course it to provide students with a working knowledge of modern Irish; to enable them to study Irish literature in the Irish and English languages; to allow students to study the main periods of Irish history; and to familiarise them with key issues in the subject and in critical and cultural theory. Instruction at beginner's level will be provided for those with no previous knowledge of Irish. There will be 20 places available. In addition to the normal matriculation requirements applicants must present a Grade C3 in a language other than English at higher Leaving Certificate level or equivalent.

New course Titles:

TR001 Biblical and Theological Studies (BT) has changed to Religions and Theology.

Jewish Studies (JS) has been renamed Near Eastern and Jewish Studies

TR008 Biblical and Theological Studies has changed to Religions and Theology

TR038 Manufacturing Engineering with Management Science has changed to Engineering with management

Other Changes:

TR024 European Studies: additional language option

Students entering this programme study two languages from French, German, Italian, Polish, Russian and Spanish. In addition to Italian, Polish and Russian, from 2007 Spanish will be available at beginners level. Applicants should note that no student will be permitted to study more than one language as a beginner.

TR036 Computer Science (evening)

This course has been withdrawn. The last intake to the course was in October 2006.

TR801 Dental Nursing (formerly a Certificate course)

Students who complete this course will qualify for the award of a Diploma.

TR803 Dental Technology (formerly a Diploma course)

Students who complete this course will qualify for the award of an Ordinary degree.

Bachelor in Acting Studies

This is a non-CAO course designed to train actors for professional theatre. It is currently a three year programme leading to an ordinary degree (Level 7). From 2007 onwards there will be an optional fourth year available for students who wish to progress to an honors degree (Level 8).

Presenting Advanced GCE examinations in October 2007 (See page 22)

Trinity College will continue to allocate fixed points to A-level grades for the purposes of determining students' ranking only. These points will not be used to compare A-level students with Leaving Certificate students, and are not used for competitive entry. Details of the A-Level points range for competitive entry are available at www.tcd.ie/admissions

Trinity College reserves the right to make the final decision in all matters pertaining to the admissions process.

Garda Vetting

Students applying for courses which involve clinical or practice placements whereby they will come into contact with children or vunerable adults should be aware that they may be required to comply with Garda vetting procedures prior to the commencement of a placement.

Provisional Term Dates 2007-2008

Freshers Week *- orientation and registration for all new students*	1 October 2007 – 5 October 2007
Michaelmas Term	8 October 2007 – 7 December 2007
Hilary Term	7 January 2008 – 7 March 2008
Trinity Term	31 March 2008 – 9 May 2008
Examination Period	19 May 2008 – 13 June 2008

Important dates for applicants

13 December 2006	TCD Open Day.
18 January 2007	TCD mature student information evening.
1 February 2007	Early Closing Date for CAO. Applications to restricted entry courses and applications from mature students must be made to the CAO by this date. Submission of Mature Students Supplementary Application Form to Admissions Office, Trinity College (for all full-time courses except Nursing). Applications from non-EU students wishing to pursue a full degree should be submitted to the Office of International Student Affairs, East Theatre, Trinity College, Dublin 2.
1 March 2007	Closing date for applications to sit the University Matriculation Examination. Closing date for applications to the Bachelor in Acting Studies. Applications from EU and non-EU students wishing to study as a visiting student for up to one academic year should be submitted to the Office for International Student Affairs.
31 March 2007	Provisional date for Music and Music Education entrance examination.
1 May 2007	Late Closing Date for CAO. Late applications to restricted entry courses will not be considered. Late applications from mature students will not be considered.
31 May 2007	Closing date for receipt of applications to the courses Diploma in Deaf Studies, Diploma in Irish Sign Language Teaching and Diploma in Irish Sign Language/English Interpreting. Closing date for receipt of applications for the Reid Entrance Exhibition.
1 July 2007	Closing date for the professional Diploma/Degree in Theology. Closing date for submission of a 'Change of Mind' to CAO.
17 September 2007	Mature Student Welcome Programme begins.
24 September 2007	Preliminary courses for new students begin. There is a preliminary course in chemistry for students in the Faculties of Science and Health Sciences.
1 October 2007	Freshers Week: orientation & registration week for all new students.
8 October 2007	Lectures begin.

Copies of this publication are available free of charge from
The Admissions Office,
Trinity College
Telephone: (01) 677 2941
Fax: (01) 872 2853
Email: admissns@tcd.ie
Website: www.tcd.ie