THE UNIVERSITY OF DUBLIN

TRINITY COLLEGE

UNDERGRADUATE COURSES 2005

www.tcd.ie

Alerts Page

TR037 INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT)

Course merged with TR033 Computer Science

The ICT course has been merged with the course TR033 - Computer Science to form a combined degree programme. Students who apply for TR033 – Computer Science will be introduced to a number of optional courses in the Junior Sophister (third) year. In the fourth year students select three options from a range of specialised courses including ICT courses.

New Scoring System for Advanced GCE (A2) level

Following a decision of the College Board the scoring system for Advanced GCE (A2) level examinations has been revised:

Grade	AS Level	A2 Level
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 Advanced GCE (A2) subjects from one academic year

or

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

NON-EU Applications

Students are reminded that Trinity College uses the CAO in the assessment of EU applications only.

Non-EU applications should be obtained from and returned directly to the University (**www.tcd.ie/Admissions** or **www.tcd.ie/ISA**).

Trinity will endeavour to ensure that applicants use the correct application route and will check all CAO applications insofar as this is possible. Where the EU 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 on page 15. Supporting documentation may also be required.

Qualifications Not in English

Applicants presenting second level qualifications in a language other than English are required to include the following with their application:

- A certified true copy of the qualification certificate and final transcript
- A certified true translation into English of the qualification certificate and final transcript

English Language Proficiency

If English is not your first language you will be required to provide evidence of English language proficiency.
To be eligible for consideration you must present the required grade in one of the following examinations:

TOEFL 550 (213 computer based)
Cambridge Proficiency Grade C or higher
Cambridge Advanced Grade C or higher
IELTS (Academic version) 6.00

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A Message from the Provost

I hope that you will consider joining us as a student at Trinity College Dublin. Here at Trinity, we promise you an unforgettable educational and social experience that will enable you to face any challenge, anywhere, and at any time, for the rest of your life.

As a student in Trinity, you will be joining a community dedicated to scholarship and learning stretching back over 400 years. Located right in the heart of Dublin city, our beautiful campus has magnificent historic buildings standing side-by-side with state-of-the-art laboratory, library, and information technology facilities. Many great minds have passed through the College over the years, including Berkeley, Swift, and Beckett in the Humanities; Hamilton, FitzGerald and Walton in the Sciences. Their spirit of learning, of breadth, and of reaching beyond the conventional, is very much at the heart of the Trinity ethos. You will be encouraged to achieve your full potential as an active, independent explorer of knowledge. You will learn to question, to analyse, to solve problems, and to be an effective communicator.

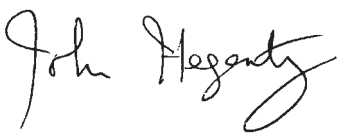
Two years ago we launched a very special new development, the Broad Curriculum, that will expose you to ideas far beyond your own area of specialisation, will enable you to make best use of information technology to enhance learning, and will provide an opportunity to develop your language skills. It is proving very popular with students.

You will study alongside our staff who, through research and scholarship, are pushing back the frontiers of knowledge in their own disciplines. Some of you will have an opportunity to study abroad, an enriching experience which will help to equip you for the global society in which we all live.

Being a student at university is a chance in a lifetime for personal development in the widest sense. An integral part of the Trinity experience is the opportunity to meet students from over eighty-six countries and to participate in over eighty student clubs and societies, offering a vast range of social, sporting, and cultural activities.

We in Trinity see ourselves as an integral part of the city and of society generally, providing an independent voice on the major economic, social, and political issues of the day. We welcome students from all backgrounds and countries; the only barrier is ability.

Trinity offers an environment for learning and development that combines the best of the old with the most exciting of the new. We hope that you will come and join us for an exciting few years of learning, exploration, development, fun, and, of course, hard work.



John Hegarty
Provost

July 2004

Teachtaireacht ón bPropast

Tá súil agam go ndéanfaidh tú do mhachnamh ar bheith linn mar mhac léinn i gColáiste na Tríonóide i mBaile Átha Cliath. Tugaimid geallúint duit, go mbeidh taithí oideachasúil agus shóisialta agat a chuirfidh ar do chumas aghaidh a thabhairt ar gach dúshlán, i ngach áit agus am, i gcaitheamh do shaoil.

Mar mhac léinn sa Tríonóid beidh tú i do bhall de chomhluadar atá tar éis a bheith tíolaicthe don léann agus don fhoghlaim le 400 bliain anuas. Tá foirgnimh shuntasacha stairiúla agus saotharlanna, áiseanna leabharlainne is fteicneolaíocht an eolais den scoth ar ár gcampas atá suite i gceartlár chathair Átha Cliath. I measc na n-intleachtóirí cáiliúla a chaith tréimhse sa Choláiste bhí Berkeley, Swift agus Beckett sna Daonnachtaí agus Hamilton, FitzGerald agus Watson sna hEolaíochtaí. An dúil chíocrach a bhí acu san fhoghlaim, san fhairsinge is sa dúshlán, tá sin i gcroílár spiorad na Tríonóide. Spreagfar thú le barr do chumais a bhaint amach mar thaiscéalaí gníomhach neamhspleách feasa. Foghlaimeoidh tú le ceisteanna chur, le hanailís a dhéanamh, le fadhbanna a réiteach agus le bheith i do chumarsáidí eifeachtach.

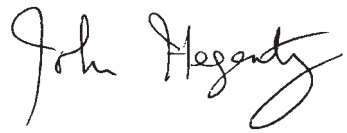
Sheolamar forbairt úr speisialta dhá bhliain ó shin a chuirfidh ar do súile duit smaointe atá i bhfad lasmuigh de do chuid sainábhair féin ar an úsáid is mó a bhaint as Teicneolaiocht an Eolais leis an fhoghlaim a mhéadú, agus ar dheiseanna a sholáthar le do scileanna teanga a fhorbairt. Tá an-éileamh air seo i measc na mac léinn.

Beidh tú i mbun staidéir i gcomhluadar na foirne a bhfuil na teorainneacha eolais ina ndisciplíní féin á mbrú siar acu trí bhithín an taighde is an léinn. Beidh deis ag cuid agaibh staidéar a dhéanamh thar lear, agus a bheidh ina chabhair agaibh plé leis an tsochaí dhomhanda ina mairimid ar fad inniu.

Is deis iontach í a bheith mar mhac léinn ollscoile le haghaidh forbartha phearsanta sa chiall is leithne den téarma sin. Tá mar chuid dhílis de bheith sa Tríonóid an deis le casadh ar mhic léinn ó breis agus 86 tír agus le páirt a ghlacadh i mbreis agus ochtó club agus cumann ina bhfuil réimse mór fairsing d'imeachtaí sóisialta, spóirt agus cultúrtha ar fáil.

Sinne sa Tríonóid, táimid mar chuid dhílis den chathair agus den tsochaí go ginearálta agus labhraímid le guth neamhspleách faoi mhórcheisteanna eacnamaíocha, sóisialta agus polaitiúla ár linne. Cuirimid fáilte roimh mhic léinn ó gach saghas cúlra agus tíortha; is é a gcumas amháin a chinnfidh.

Cuireann an Tríonóid timpeallacht chun foghlama agus forbartha ar fáil, timpeallacht a chomhtháithíonn an chuid is fearr den sean leis na gnéithe is spreagúla den nua. Tá súil agam go dtiocfaidh tú le roinnt blianta a chaitheamh i bpáirt linn i mbun foghlama, taiscéalta, spraoi agus i mbun oibre, ar ndóigh.

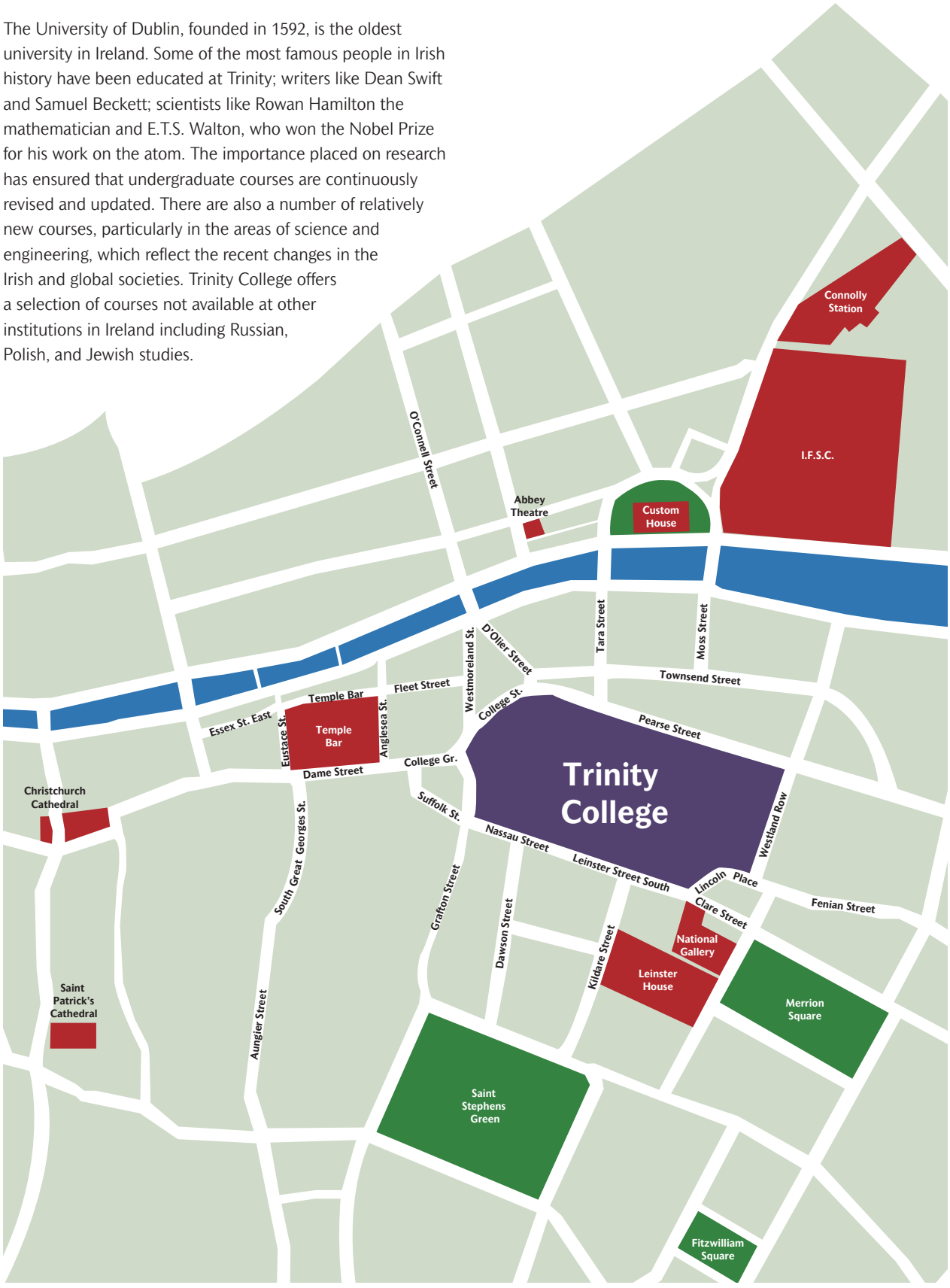


John Hegarty
Propast

Iúil 2004

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 College offers a selection of courses not available at other institutions in Ireland including Russian, Polish, and Jewish studies.



A CITY CENTRE UNIVERSITY

The University of Dublin has one college – Trinity College. The main campus 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: the National Gallery, National Museum, the Abbey and Peacock theatres of the National Theatre and the Irish Financial Services Centre to name a few.

In addition to the main campus, there are several hospital locations within Dublin where some of the Health Sciences programmes are located. 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.

BROAD CURRICULUM

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.

Broad Curriculum initiatives include:

- **language modules:** provide students the opportunity to study a foreign language (French, German, Italian, Spanish)
- **e-learning:** promotes the use of the internet and other technologies in delivering courses to encourage students' IT skills
- **small group teaching:** provides students with close contact to lecturing staff and the opportunity to develop effective oral presentation skills

A key initiative of the Broad Curriculum provides students with the opportunity to study outside their principal discipline. Trinity offers 12 Broad Curriculum courses in literature, film studies, art and society, philosophy, psychology, politics, 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.

For further information see **www.tcd.ie/Broad_Curriculum**

EXTRA LANGUAGE SKILLS

The Centre for Language and Communication Studies provides optional one-year language courses specifically for students who are not studying a language as part of their degree. The modules 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.

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.

A PLACE FOR PEOPLE

Before you come to College you will be given the name of your tutor and details of when and where to contact him or her. Your tutor will take a special interest in your welfare throughout your time in College as an undergraduate and is your anchor point in an environment designed to be personal.

Freshers week takes place during the week before teaching starts. Throughout this week there will be an orientation programme specifically for your Faculty and course. You will have an opportunity to familiarise yourself with the College campus, to meet your tutor and classmates and to find out more about the different clubs and societies run by Trinity students.

The staff and students of Trinity College form a compact academic community and are at the same time an intimate part of the city's cultural and intellectual life.

Services to students and schools

ACCESS INITIATIVES

The Trinity Access Programme (TAP) co-ordinates a number of initiatives to facilitate increased participation at third level of prospective students whose social, economic and educational experiences have prevented them from realising their full academic potential. In addition to offering applicants of all ages a range of application routes there are various supports specifically tailored to the needs of students who may or may not have progressed directly from second-level schools into Trinity. These include a writing resource centre, peer tutors and a designated study space equipped with IT resources and reference materials.

TAP reserved places for school-leavers

Places are reserved for Leaving Certificate pupils from schools affiliated to third-level access programmes. Applicants are required to satisfy the minimum academic standard of the University (the matriculation requirements page 19) and, where stated, meet any specific course requirements. However, the entry level for admission to reserved places, e.g. Leaving Certificate points, may be slightly lower than the competitive academic entry level.

Students should apply to the Central Applications Office (CAO) (see page 15) and also submit a supplementary application form to Trinity College. These 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 (E.U. 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.

For more information on access initiatives and application details see: **www.tcd.ie/Trinity_Access**

ACCOMMODATION

There is accommodation both on campus and at Trinity Hall a short distance away.

Trinity Hall

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 of rooms are reserved for new entrants to College. Accommodation is in self-catering apartments. Each typically accommodates six persons and consists 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 2004/2005

Single en-suite room	€4,069
Twin en-suite room	€3,120

How to apply for Trinity Hall

Because of the very high demand for College accommodation it is not possible to allocate a place to each student who applies. As soon as you have accepted a place in Trinity you may submit an application for College accommodation on-line at **www.tcd.ie/Accommodation/hallfirst.htm**

How are rooms allocated?

In allocating rooms to students the aim is to develop a mixed and vibrant residential community representative of the College as a whole while at the same time taking account of student needs and individual circumstances.

On-campus rooms

Rooms on campus are mostly reserved for students in their final year of study and Trinity Scholars.

On-campus accommodation includes traditional rooms, often in historic buildings, and more modern accommodation, mainly in the form of apartments, comprising several en-suite bedrooms and a shared kitchen/living room.

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 about College accommodation and the on-line application facility at **www.tcd.ie/Accommodation/student.htm**

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 alternative types of accommodation in Dublin:

- Lodgings (Digs)
- Private rented accommodation

Lodgings involves residing with a householder or family as a 'boarder' with some meals served by the householder. Lodgings are strongly recommended as an option for first year students, particularly those living away from home for the first time. Meal plans in lodgings are either bed and breakfast, or bed, breakfast and evening meal, and lodgings are available on a five or seven day basis.

Typically, the prices for lodgings are between €90 and €140 per week.

There is a very good supply of lodgings; however, those within easy reach of Trinity tend to be snapped up at an early stage. Lists of lodgings are available from mid-August onwards by sending a large stamped addressed envelope to the Accommodation Office, West Chapel, Trinity College, Dublin 2.

Private rented accommodation of reasonable standard at an affordable rent can be difficult to obtain. If you intend to seek private accommodation you should be prepared to spend several days in Dublin looking for a suitable property, budget for a reasonable rent and expect the landlord to seek a 12 month lease and at least one month's rent in advance as a deposit. If you are thinking of rented accommodation it would be advisable to share a flat or house with other students.

Accommodation advisory service

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 the College in co-operation with the Students' Union and offers guidance on what to look for when renting – security, statutory rights etc. – as well as providing telephones and a base from which students can contact prospective landlords.

For further information or advice contact:

The Accommodation Office
West Chapel
Trinity College
Dublin 2
Tel: 01 608 1177
Fax: 01 671 1267
Email: **residences@tcd.ie**

The Accommodation Office
Trinity Hall
Dartry Road
Rathmines, Dublin 6
Tel: 01 497 1772
Fax: 01 497 5176
Email: **trinity.hall@tcd.ie**

CAREERS ADVISORY SERVICE

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. Students can avail of regular group seminars on topics such as 'Preparing a Curriculum Vitae', 'Application Forms' and 'Interview Skills'. The service also offers access to computer-based guidance tools and individual vocational 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 visiting employer programme. Known around campus as the 'milkround', employers visit the College to meet with interested final year and postgraduate students.

Find out more about the Careers Advisory Service at **www.tcd.ie/Careers**

COLLEGE CHAPLAINCY

The Chaplaincy seeks to be a place of welcome and hospitality for all members of the College community. The chaplains provide an ecumenical service for students of all faiths. Tea and coffee are available at any time and students can call in for lunch on Tuesdays during term time. Pastoral guidance, spiritual accompaniment and bereavement support are also available.

There are four College chaplains who represent the four main Christian traditions in Ireland: Roman Catholic, Anglican, Presbyterian and Methodist. While the Chaplaincy seeks to promote a deeper understanding of Christian faith and spirituality, chaplains are happy to assist students of other religious traditions who wish to make contact with their own religious community in Dublin.

Find out more about the Chaplaincy at **www.tcd.ie/Chaplaincy**

COUNSELLING

The Student Counselling Service is staffed by professional counsellors and learning support professionals who provide a range of services free of charge to Trinity students. The Service offers short-term individual counselling. It also offers workshops and individual sessions on study skills, stress management and personal development. In addition, the Service operates the Peer Support Network and offers extra support to Junior Freshman students (J.F. Officer). The Service has many resources – electronic, books, tapes and leaflets – on a wide range of issues.

Find out more about the Student Counselling Service at:
www.tcd.ie/student_counselling

DISABILITY SERVICES

Trinity College is committed to a policy of equal opportunity in education and to ensuring that students with a disability have as complete and equitable access to all facets of college life as can reasonably be provided. Student Disability Services aims to assist students by arranging and co-ordinating specific educational supports such as providing information in alternative formats, making available specialist tuition for students with dyslexia and offering assistive technologies.

If you will need particular supports or arrangements as a student College needs to know in advance of admission. Disclosure of a disability or specific learning difficulty will not adversely affect your application.

Find out more about Student Disability Services at
www.tcd.ie/disability

Students with a disability should follow the application process detailed on page 15.

HEALTH SERVICE

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

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 about the Student Health Service 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 or an E128 form 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.

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 are 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
Shared Services Centre
Dr. Steeven's Hospital
Steeven's Lane
Dublin 8
Tel: +353 1 635 2374/2375

AN GHAEILGE

Tá curtha roimhe ag Coláiste na Tríonóide béim níos mó a chur ar úsáid na Gaeilge i saol an Choláiste. Tá toradh na béime seo le feiscint sa chomharthaíocht dhátheangach ar fud an Choláiste agus is í Leabharlann Ussher an sampla is déanaí den chomharthaíocht sin. Chomh maith leis sin tá níos mó ábhair i nGaeilge á fhoilsiú i bhfoilseacháin oifigiúla an Choláiste.

Cuirtear rang Gaeilge ar fáil do na mic léinn ar mian leo coinneáil i dteagmháil leis an teanga agus úsáid a bhaint aisti. Tá fáilte ar leith roimh na mic léinn úra sa rang seo atá dírithe orthu siúd nach bhfuil Gaeilge mar ábhar léinn acu. Má tá spéis agat sa rang Gaeilge, beidh deis agat é sin a chur in úil le linn Sheachtain na Mac Léinn Úr.

Tá Oifigeach Gaeilge ceaptha sa Choláiste agus tá na seirbhísí seo á gcur ar fáil le tacaíocht ó údaráis an Choláiste agus ón Údarás um Ardoideachas.

Trinity College is placing greater emphasis on the use of Irish in College. The result of this emphasis can be seen in the bilingual signage throughout College, the most recent example being the new Ussher Library. More Irish than ever before can be read in the official College publications. An Irish class is available for students wishing to stay in touch with and use the language. First years are particularly welcome to the class which is for students who are not formally studying Irish in College. You will have an opportunity to express your interest in the Irish class during Freshers' Week.

These services, including the Oifigeach Gaeilge, are possible through the support of the College authorities and the Higher Education Authority.

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

PERSONAL TUTOR

Each undergraduate student at Trinity is assigned to a personal College 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, such as 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. The tutor-tutee relationship is totally confidential and this ensures high standards of justice and equity for students.

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 16.

SCHOOLS LIAISON

The Trinity Access Programme co-ordinates a wide range of activities with each of the College's partner schools – 13 second level schools and 15 primary schools. In addition, members of staff from the Admissions Office and from academic departments participate in liaison activities with schools nationwide.

Open Day

The College 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 2005 the Open Day will be held on **Wednesday 15 December 2004**.

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 is 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 01 608 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 and specific entry requirements. For details of Education and Careers Conventions in your area contact the Guidance Counsellor in your school or local adult education college.

Visits to Schools

Staff from the College 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 host a visit to your school please contact the Admissions Liaison Officer by telephone at 01 608 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 visit for a school group please contact the Admissions Liaison Officer by telephone at 01 608 3992 or by email to **schools.liaison@tcd.ie**

Facilities at Trinity College

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, without charge, a copy of every book published in Ireland and the United Kingdom.

The Library contains a bookstock of 4.25 million volumes, thirty thousand current serials, 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 many electronic books, almost 100 databases and 10,000 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 the College'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 about the Library at **www.tcd.ie/Library**

INFORMATION TECHNOLOGY

There are numerous computer rooms and dedicated email/web stations for student use at different sites around the campus and in some off-campus locations. Each student is allocated a TCD email account 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 usage, 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. Dedicated email/web stations located close to large lecture theatres enable students to check their email and to use the web between lectures.

College has a special deal with DELL computers offering students a choice of three laptops all compatible with the Trinity infrastructure. Students can apply to connect their personal computers (which must meet certain minimum specifications) to the College network and the computers can then be used at a number of communal locations in the Hamilton, Berkeley and Ussher libraries. College 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 about computer services for students at **http://isservices.tcd.ie**.

SPORT

Trinity has approximately 50 sports clubs ranging from athletics, rugby, hockey to snow sports and includes many sports you may not have had the opportunity of trying before. All sports clubs are administered by Dublin University Central Athletic Club (DUCAC) and are funded by DUCAC on an annual basis. Grants are issued to clubs for sports equipment, competition fees, coaching, affiliation and travel.

The sport facilities are located both on campus and at a number of sites off campus. The on campus Luce Sport Centre has recently been refurbished. Alongside squash courts and indoor sports halls for basketball, badminton, volleyball, five-a-side soccer, the Sport Centre features a climbing wall, a new studio for martial arts, aerobics etc., and a fitness theatre with cardiovascular machines, resistance machines, free weights and other facilities. Also on campus are 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, hurling, gaelic football and camogie.

DUCAC at **www.tcd.ie/Clubs/DUCAC**

Department of Sport at **www.tcd.ie/sport**

THEATRES

The Samuel Beckett Centre (1992) comprises the Samuel Beckett Theatre (a 208-seat black box performance space), Players Theatre (the studio theatre of Dublin University Players, the student drama society), a dance studio/rehearsal space, seminar rooms and offices.

The Samuel Beckett Theatre is the campus theatre of the School of Drama and during term time it showcases the work of the School. 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 International Theatre Symposium, 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 about the theatre at **www.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 has a diverse programme of exhibitions, embracing both Irish and international contemporary art.

Gallery activities such as tours, lectures and discussion groups encourage audience participation and evaluation of the work on show. The Gallery has a small bookshop which stocks a wide range of art magazines, including Artforum, Frieze and Circa. Catalogues of current and past exhibitions are also on sale.

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

Find out more about the Gallery at
www.douglashydegallery.com

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, such as Quark XPress and Adobe Photoshop, to produce publications equal to anything in the commercial marketplace while the variety of publications allows students the freedom to develop and experiment with new ideas.

PUBS is independent of the Students' Union and other organisations within the College. This affords editors a large degree of freedom to report and comment upon events both within College and externally. The Publications Committee also has strong links with national media and runs regular journalism workshops.

The Publications Committee publishes Trinity News (a 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 about student publications at
www.tcd.ie/Student/Publications

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. 87 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.

Find out more about the Central Societies Committee at
www.csc.tcd.ie

STUDENTS' UNION

The Students' Union is the only representative body for all undergraduate students in Trinity. It has the dual and complementary functions of representing students' interests both inside and outside College and of providing student services.

The Union represents students' interests on many of the most important College committees, such as the Board of College, the University Council and the Finance Committee. Every year the students elect five sabbatical Officers in the Students' Union, each taking a year off-books to work full time on behalf of students: the President, the Deputy President/ Publicity Officer, the Education Officer, the Welfare Officer and the Ents (Entertainments) Officer. Sabbatical Officers are supported by Executive Officers and elected representatives from each class.

Services run by the Students' Union include two shops, a bookshop co-operative, a travel agency, an employment and accommodation bureau and the JCR café. The Students' Union also publishes its own newspaper – the University Record.

Find out more about the Students' Union at **www.tcdsu.org**

SCHOLARSHIPS AND AWARDS

Since its foundation in 1592, the College 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 College 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

Reid Entrance Exhibitioners 2003 receive their laptops from the Senior Lecturer and the Professor of Modern Literature, Brendan Kennelly.

(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: St. Andrew's College, Booterstown, Alexandra School, Dublin and Portora Royal School, Enniskillen. 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

Trinity College is recognised worldwide for its academic achievements. Those involved in sport in College are also committed to this pursuit of excellence. To achieve this, a limited number of sport bursaries and scholarships are available to sportsmen and sportswomen of international standard who come to study at and compete for Trinity.

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

Tel: + 353 1 608 3581
Email: **sport@tcd.ie**
Web: **www.tcd.ie/sport**

Download the Sports Scholarship application form
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.

Making an application to Trinity College Dublin

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 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 and has been resident in the EU for three years immediately preceding admission.

Note

Ordinarily resident:
If an applicant is under 23 years of age on the start date of the course then the principal residence for the purpose of taxation of the parents will be examined. If an applicant is over 23 years of age on the start date of the course then the principal residence for the purpose of taxation of the applicant will be examined.

'Immediately preceding admission' refers to the five-year period October 2000 – October 2005.

All other applications are considered to be non-EU applications (see page 17 for further information).

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

Where the EU 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 set out in the guidelines above. Supporting documentation may also be requested.

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 1 608 1039/1133, 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 require particular arrangements or supports you will need to advise Trinity in advance of admission.

You should apply through the Central Applications Office (CAO) and indicate on first page of the application form that you have a disability which is the basis for seeking support or particular arrangements in either the application process or in pursuing your College career.

The CAO will send you a supplementary information form. This requests specific disability documentation from appropriate professionals attesting to the disability, its effects on your education to date and the predicted effects on life in College. You should return this supplementary information form directly to the CAO.

In assessing supplementary applications the following criteria apply:

- All applicants who propose to satisfy matriculation and course requirements will be considered.
- Students with dyslexia/specific learning difficulties and students with profound hearing impairment may request exemption from the requirement to present a language other than English, subject to the provision of satisfactory documentation.
- Appropriate documentation in respect of the disability must accompany supplementary applications from applicants with disabilities.

Disclosure of a disability or specific learning difficulty will not adversely affect your application.

If you would like further information please consult the Disability Services website at: **www.tcd.ie/Disability** and refer to Disability Services (page 10).

MATURE STUDENTS

All undergraduate courses in Trinity College are open to mature applicants. Mature student applicants are not required to satisfy the normal University 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 15)
- be 23 years of age on 1st January 2005
- submit a CAO application form to the Central Applications Office (CAO) by 1 February 2005
- submit a Trinity College Mature Student Supplementary Application Form (required for all courses with the exception of nursing) to the Admissions Office by 1 February 2005.

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: 01 608 1039, Email: **admissns@tcd.ie**, Website: **www.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 courses in the Faculty of Engineering and Systems Sciences 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 Guidelines for Completing the Mature Student Application Form 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 June to allow successful applicants the maximum time possible to prepare for the start of the academic year 2005. Official offers to successful applicants are made through the CAO in early August. 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 2004 may give an indication of the level of achievement required for 2005. Applicants are advised that the competitive entry level may fluctuate.

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

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 in the manner shown on the Offer Notice.

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 2006 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 1 608 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 1 608 3150
Fax: +353 1 677 1698
Email: **isa.office@tcd.ie**

The closing date for applications is 1 February 2005.

In order to be considered for admission all applicants are required to satisfy the University matriculation requirements (see page 19) and, where relevant, meet any specific course requirements (see pages 23-25).

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

RECEIVING AN OFFER AND 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 2005.

FEES INFORMATION

Payment of fees

If you accept an offer of a place you 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 2004) and the Union of Students in Ireland (USI) membership levy of €8 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 of €8.

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

Only students who are NOT eligible for the Government's Free Fees Initiative will be liable for full tuition fees. To be eligible for inclusion in the scheme you must satisfy the criteria set out by the Department of Education and Science:

Eligible students are those who:

(a) are first-time undergraduates

(b) hold EU nationality or official refugee status

(c) and have been ordinarily resident in an EU Member State for at least three of the five years preceding their entry to an approved course.

For further information please consult the Department of Education and Science website at **www.education.ie**

Students who are not classified as EU students (see page 15) pay higher fees, termed 'economic fees', than those payable by EU students.

TUITION FEES 2003/2004

SUBJECT AREA Only students who are NOT eligible for inclusion in the Government's Free Fees Initiative will be liable for fees. See previous page	Annual EU Fee 2003/2004 €	Annual Non EU Fee 2003/2004 €
Arts (Humanities, Languages, Psychology, TSM)	3,805	11,237
Business Economic and Social Studies (including Sociology and Social Policy)	3,805	11,237
Computer Science and Engineering (including MSISS)	5,043	14,724
Dental Science	6,548	21,300
Law, Law & French, Law & German	3,805	11,237
Health Sciences (including Clinical Speech and Language Studies, Medicine, Physiotherapy and Radiation Therapy)	5,822	21,300
Natural Science (including Mathematics, Computational Chemistry/Computational Physics, Human Genetics)	5,043	14,724
Nursing Studies	4,983	13,080
Pharmacy	5,043	14,724

General fee information can be found in the College Charges booklet available from the Enquiries Office, West Theatre, Trinity College, Dublin 2.

For details of tuition fees for 2004/2005 please see **www.tcd.ie/Treasurers_Office**

Admission Requirements 2005

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, their best **four** GCE Advanced level (A2) subjects OR their best three GCE Advanced level (A2) subjects and one GCE Advanced Subsidiary level (AS) in a subject not presented at Advanced level (A2), in accordance with the numeric values set out on page 22.

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.

5 Acceptable subjects: 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 agricultural science, botany or zoology
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.

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.

L.C.V.P.

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

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

Admissions requirements continued on page 22.

COURSE REQUIREMENTS 2005: TR001 Two-subject moderatorship course

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.

Students are not permitted to commence two new languages.

Subject Name		Specific Subjects Required (reference is to higher level Leaving Certificate or GCE Advanced level (A2) grades)	Available Places in 2004	Min Points 2003
AH	Ancient history and archaeology	none	23	425*
BT	Biblical and theological studies	none	24	310
CC	Classical civilisation	none	29	395
DR	Drama studies	see note 12 (page 25)	20	350*
EI	Early Irish	C3 in Irish	10	495
EC	Economics	see note 1 (page 24)	43	450
EN	English literature	C3 in English	81	530
FS	Film studies	none	20	510
FR	French	C1 in French	84	310
GG	Geography ‡	none	35	440
GE	German	C1 in German	32	355
GK	Greek	C3 in Greek **OR** C3 in a language excluding English	10	350
HS	History	none	40	510
AR	History of art and architecture	none	28	470*
IT	Italian	C3 in a language excluding English	30	420*
JS	Jewish studies	none	10	540
LT	Latin	C3 in Latin **OR** C3 in a language excluding English	10	420
MT	Mathematics	B3 in mathematics	10	450
MI	Modern Irish	C3 in Irish	30	330
MU	Music	see note 5 (page 24)	8	530
PH	Philosophy	none	43	470
PS	Psychology	none	17	545
RU	Russian	C3 in a language excluding English	36	335
SC	Sociology	none	59	440
SP	Spanish	C3 in a language excluding English	39	330

‡Geography may also be read as part of a moderatorship course in science (TR071)
(see page 23 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	-

MATRICULATION REQUIREMENTS: GCSE/GCE ADVANCED LEVEL (A2)

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

1 A pass in English language.

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 GCE Advanced level (A2) papers.

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

GCE Advanced Subsidiary level (AS) grades will not be accepted for the purpose of satisfying specific 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/GCE Advanced level (A2) subjects set by recognised examination boards are, in principle, acceptable for consideration with the following exceptions:

Physical education is not acceptable.
General studies is not acceptable.

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

6 Combinations of GCE Advanced level (A2) 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

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 GCE Advanced level (A2) grades required for matriculation purposes but both may be used for scoring purposes

GCE scoring system

Grade	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

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.

OTHER SCHOOL LEAVING QUALIFICATIONS

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

AGE

Date of birth must be before 15 January 1989 for applicants seeking admission in 2005.

UNIVERSITY MATRICULATION EXAMINATION

In a limited range of subjects, a matriculation examination is held in Trinity College every year, usually in April. 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.

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 fulfillment of all matriculation requirements.

The examination is graded in equivalent terms to grades used in higher Leaving Certificate examination papers.

COURSE REQUIREMENTS 2005: Honors Bachelor Degrees – Level 8 (HO)

Course Code	Name	Specific Subjects Required (reference is to higher level Leaving Certificate or GCE Advanced level (A2) grades)	Available Places 2004	Min Points 2003
TR002	Music	see note 5 (page 24)	10	430
TR003	History	none	38	460*
TR004	Law	none	79	540*
TR005	Philosophy	none	17	470
TR006	Psychology	none	31	525*
TR007	Clinical speech and language studies	see note 4 (page 24)	26	510*
TR008	Biblical and theological studies	none	21	310
TR009	Music education	see note 5 (page 24)	10	375
TR010	Computer science, linguistics and German	C3 in mathematics and C1 in German	10	400
TR011	Computer science, linguistics and French	C3 in mathematics and C1 in French	10	385
TR012	History and political science	none	14	525*
TR013	Computer science, linguistics and Irish	C3 in mathematics and B3 in Irish	5	AQA
TR014	Philosophy and political science	none	10	505*
TR018	Law and French	C1 in French	10	570*
TR019	Law and German	C1 in German	10	555
TR021	Classics	C3 in Greek or Latin	15	390
TR022	Early and modern Irish	C3 in Irish	15	310
TR023	English studies	C3 in English	34	505
TR024	European studies	see note 8 (page 24)	33	505
TR025	Drama and theatre studies	see note 12 (page 25)	12	510*
TR026	Germanic languages	C1 in German	8	345
TR031	Mathematics	B3 in mathematics	30	365
TR032	Engineering	C3 in mathematics	175	445
TR033	Computer science	C3 in mathematics	65	340
TR034	Management science & information systems studies	C3 in mathematics	24	465
TR035‡	Theoretical physics	B3 in mathematics and B3 in physics	35	440*
TR036	Computer science (evening lectures)	OB3/HD3 in mathematics	64	330
TR038‡	Manufacturing engineering with management science	C3 in mathematics	20	330
TR051	Medicine	see note 3 (page 24)	60	570*
TR052	Dental science	see note 3 (page 24)	32	545*
TR053	Physiotherapy	see notes 1 and 6 (page 24)	40	535*
TR054	Occupational therapy	see note 7 (page 24)	40	490*
TR055	Radiation therapy	see note 14 (page 25)	25	490*
TR071‡	Science	see notes 1 and 2 (page 24)	290	425
TR072	Pharmacy	see notes 1 and 9 (page 24)	70	540*
TR073‡	Human genetics	see notes 1 and 10 (page 24)	10	515
TR074‡	Computational chemistry/ computational physics	see note 11 (page 25)	15	410
TR075‡	Medicinal chemistry	see notes 1 and 2 (page 24)	25	440
TR076‡	Physics and chemistry of advanced materials	see notes 1 and 13 (page 24)	20	335
TR081	Business, economic and social studies	see note 1 (page 24)	216	470

AQA = all qualified applicants
*Not all applicants at this level were offered places.

TR083	Sociology and social policy	none	20	465
TR084	Social studies (Social Work)	none	30	480
TR085	Business studies and French	C1 in French and see note 1 (below)	15	460*
TR086	Business studies and German	C1 in German and see note 1 (below)	20	420
TR087	Business studies and Russian	C3 in a language excluding English & see note 1	7	440
TR091	General nursing	see note 15 (page 25)	96	350*
TR092	General nursing (mature applicant)	see note 17 (page 25)	17	
TR093	General nursing – Adelaide School of Nursing	see notes 15 & 16 (page 25)	30	390
TR094	General nursing (mature applicant) – Adelaide School of Nursing	see note 16 & 17 (page 25)	5	
TR095	Psychiatric nursing	see note 15 (page 25)	23	280
TR096	Psychiatric nursing (mature applicant)	see note 17 (page 25)	22	
TR097	Mental handicap nursing	see note 15 (page 25)	26	260
TR098	Mental handicap nursing – (mature applicant)	see note 17 (page 25)	14	

‡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 points level were offered places.*

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 GCE Advanced level (A2), a grade C at Advanced 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 Advanced 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 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 2 April (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 and Russian 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). 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 or physics/chemistry.

12 This is a restricted entry course, therefore, applications must be submitted 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 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 in early March, 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 submitted 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 2005: DIPLOMA AND CERTIFICATE COURSES

Course Code	Name	Specific Subjects Required	Available Places 2004	Min Points 2003
TR801	Dental nursing (certificate)	see notes A & C (below)	20	310*
TR802	Dental hygiene (diploma)	see note B (below)	8	400
TR803	Dental technology (diploma)	see notes A & D (below)	6	345

*Not all applicants at this points level were offered places

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 those who do not satisfy the academic entry requirements but can demonstrate relevant experience in dental nursing.

D Applications may also be considered from those who do not satisfy the above requirements but can demonstrate appropriate relevant experience in dental technology.

Faculty of Arts (Humanities) and Faculty of Arts (Letters)

Introduction

There are two faculties of arts.

The Faculty of Arts (Humanities) includes the Departments of Education, Religions and Theology, Medieval and Modern History, History of Art, Law, Music, Philosophy and Psychology.

The Faculty of Arts (Letters) includes the Departments of Classics, Drama and Theatre Studies (including Film Studies), English, Irish and the modern language departments: French, Germanic Studies, Italian, Russian, and Hispanic Studies.

Unless otherwise indicated, all degree programmes in the Faculties of Arts (Humanities and Letters) are of four years duration. The degree awarded is a Bachelor in Arts (Moderatorship (B.A. with honors)), except for courses with a vocational element or those that offer a professional qualification, such as the Bachelor in Laws (LL.B.), the Bachelor in Education (B.Ed.), the Bachelor in Theology (B.Th.), and the Bachelor in Acting Studies (B.A.S.).

ARTS COURSES AT TRINITY COLLEGE

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 courses offered by the Arts Faculties 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 in students: 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 are available in biblical and theological studies, classics, early and modern Irish, history, English, music, philosophy, law, Germanic languages, psychology, and drama and theatre studies. In a single honor course one subject is studied almost exclusively for the four years however most subjects encompass a range of disciplines.

The second kind are courses consisting of specially designed ‘packages’ of different subjects. This 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, and a language, music education or law and a language.

Thirdly, there is the joint honors two-subject moderatorship (TSM) programme. 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?

In 2002, only 3% of arts graduates were still seeking employment. Of that year’s graduating class 48% went straight into employment, 43% went on to further academic study or research and 6% were not available for study or employment, mostly as they were taking a ‘year out’.

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.

PERMITTED TSM COMBINATIONS

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 studied 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	Biblical & theological studies	Classical civilisation	Drama studies	Early Irish	Economics	English literature	Film studies	French	Geography	German	Greek	History	History of art & architecture	Italian	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	
Biblical & theological studies	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
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

PLACES 2004: 23

POINTS 2003: 425

Ancient history and archaeology cannot be studied as a single honor degree. 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.

For permitted combinations see page 21.

WHY STUDY ANCIENT HISTORY AND ARCHAEOLOGY?

Modern western society owes its origins to ancient Greece and Rome. 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.

IS THIS THE RIGHT COURSE FOR YOU?

Students who undertake this course should have a particular interest in the history, art history and archaeology of the Greek and Roman worlds. However, knowledge of Greek or Latin is not essential.

COURSE CONTENT

Among the many issues addressed on this programme are 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.

THE JUNIOR FRESHMAN YEAR

In the Junior Freshman (first) year, two of your three courses – art and architecture of Greece and Rome and Introduction to Greek and Roman History – will be shared with students of classical civilisation, classics, Greek and Latin. In addition you will study sources and evidence in history and archaeology.

- **Art and architecture of Greece and Rome** – 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. This course is designed to develop the critical and analytical skills required to assess pieces of evidence that are difficult to interpret and to balance those that are in conflict.

YEARS TWO AND THREE

Courses in the Senior Freshman (second) and Junior Sophister (third) years require more detailed study of specific subjects and time periods.

In the Senior Freshman (second) year you will study courses in Greek archaeology, Greek history concentrating on the three major periods: the Archaic 850-480 BC; the Classical 480-323 BC; and the Hellenistic 323-30 BC, and take a special course on the Aegean Bronze Age. The special course is taught through a combination of lecture and seminar classes, seminars are small group discussion sessions during which you will have the opportunity to handle relics (or replicas of them).

In the Junior Sophister (third) year you will study Roman history, Roman archaeology and a special course in the archaeology and history of Roman Britain. Roman history concentrates on the first three centuries of the Christian era when emperors such as Augustus, Nero and Marcus Aurelius ruled and investigates the social classes, military strategies, imperial politics and economic and social concerns of the time. 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.

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
- ☐ The city of Rome
- ☐ Jews in the Roman world
- ☐ Ancient Cyprus
- ☐ Drama and spectacle
- ☐ Goddesses of the ancient Mediterranean

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

You will be required to write a thesis of not more than 15,000 words on a subject of your choice that is of relevance to the Classical world. This gives you a chance to investigate thoroughly an area that particularly interests you.

ASSESSMENT STRUCTURE

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

STUDY ABROAD

The School of Classics 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).

CAREER OPPORTUNITIES

Recent graduates have worked in many fields including archaeology, art restoration and museum work.

FURTHER INFORMATION

www.tcd.ie/Classics
Tel: + 353 1 608 1208

Biblical and theological studies

COURSE CODES:	**TR008**	**TR001**
PLACES 2004:	**21**	**24**
POINTS 2003:	**310**	**310**

Biblical and theological studies can be studied as a single honor degree (TR008) or in combination 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.

For permitted combinations see page 21.

See also:
Jewish Studies (page 58)
Diploma/Degree in Theology (page 79)

COURSE OVERVIEW

The School of Religions and Theology (formerly the School of Hebrew, Biblical and Theological Studies) is an independent academic environment for the study of religions in the ancient and modern worlds that is not affiliated to any church or religious body.

The course starts from the beginning so no previous knowledge of this subject is required. 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 second year on, you choose from a range of courses depending upon your individual interests; you may decide to take courses that are more historical in nature (examining the origins of Judaism or Celtic Christianity) or more philosophical (exploring questions such as science and religion, the ethics of genetic engineering, the challenge of atheism). In the second year you will also have the option to learn Hebrew or Greek.

This course aims to help you develop a critical understanding of the place of religion in ancient and modern societies. You will undertake the exegesis (critical explanation) of the Bible and examine the historical context within which biblical texts were written. The influence of Mesopotamia, Egypt, Greece and Rome on the early Jewish writers will be explored. The expressions of religious belief in different ages (Jewish and Christian mystics of the Middle Ages, the challenge of the Enlightenment) and the study of modern attempts to express religious identity in the face of the challenge of the modern world form central themes.

The course provides a wide range of subject choices dealing with both ancient and modern periods in the Middle East, Ireland, Europe and America. In doing so, it also allows you to consider many aspects of life that have relevance within a contemporary cultural and political context.

IS THIS THE RIGHT COURSE FOR YOU?

Through this course, you will develop the ability to reflect in a mature and critical way on religion and its significance in the modern world.

This is the right course for you if you are interested in any of the following areas: ancient and modern history, early Christianity, Judaism, Greek and Roman culture, philosophy, theology, current affairs, medical ethics, world religions and politics.

COURSE CONTENT

Single honor and TSM students follow the same principal subjects, however, the workload for TSM students is less extensive. In the first year you will take a range of introductory courses on Judaism, Christianity and Islam. Options allow for greater concentration in your preferred areas of interest and are introduced in your second and third years. In your final year, a considerable part of your workload will consist of preparing a dissertation on a chosen topic.

THE FRESHMAN YEARS

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

- **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 on into the Roman period which witnessed the emergence of the new Jewish sect 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.

- **Introduction to theology:** topics such as the challenge of multiculturalism, secularisation, gender issues, the challenge of atheism, and globalisation are discussed.

- **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 as it existed under Roman rule.

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

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

- **Introduction to Judaism (first half) and Islam (second half):** this course covers historical origins, women in Judaism and Islam, politics and Islam, Islamic religious traditions.

Two hours per week are devoted to each course. Single honor students take all six courses above; TSM (joint honors) students taking biblical and theological studies take the first four courses.

Examples of options available in the Senior Freshman (second) year include:

- The early history of Israel beginning around the year 1200 BC; the origins of the early Israelites are explored, evidence for the kingdoms of the biblical figures of David and Solomon is examined within an archaeological and literary framework.

- Paul and the development of early Christianity examines the social and historical world of Paul and explores the cities visited by Paul.

- Aspects of Judaism focuses on the lives of Jews from the time of Alexander the Great who conquered Palestine in 333BC to the period of Roman rule which witnessed the Jews revolting against Rome and the beginnings of the new sect of Christianity.

Other courses include: Jews in the middle ages, philosophical and theological approaches to God, and contemporary ethical issues including for example, discussion of the ethics of human cloning.

The Department also permits students in their second year to substitute a Broad Curriculum course (such as Film Studies) for a course in the Department. For information on the Broad Curriculum see the website **www.tcd.ie/Broad_Curriculum/**

Students wishing to study a language may choose an introduction to Hebrew or Greek.

THE SOPHISTER YEARS

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

- Prophecy in Israel
- Literary and historical approaches to the Gospels
- The reformation and enlightenment in Europe and Ireland
- Ethics: philosophical and theological
- Advanced Hebrew or Greek
- Jewish identity in the modern world
- Ethics and politics
- Faith and culture

- History of the Jews of ancient Egypt from Greek to Roman times
- Messianism: Jewish and Christian ideas about the Messiah
- Christianity and world religions: the challenge of the claims of Buddhism, Hinduism and other world faiths to Christianity
- Celtic Christianity

METHODS OF 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

The Department's student exchange programme offers you the opportunity to spend an academic year (or term) either in Leuven (Belgium) or at the University of Glasgow. A number of students have also received scholarships to spend a summer in Israel participating in archaeological digs.

CAREER OPPORTUNITIES

A recent survey of graduates demonstrated that our graduates pursue a diversity of career paths. These careers include business, law, journalism, media, teaching, theatre, archaeology and museum work. More details on career paths chosen by graduates of our school can be found on the Departmental website.

FURTHER INFORMATION

www.tcd.ie/Bib_Theo
Tel: + 353 1 608 1297

Classical civilisation

COURSE CODE: TR001

PLACES 2004: 29

POINTS 2003: 395

Classical civilisation cannot be studied as a single honor degree. 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.

For permitted combinations see page 21.

IS THIS THE RIGHT COURSE FOR YOU?

You will need to have a strong interest in the Greek and Roman worlds to enjoy this course. You are not required, however, 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 three courses – art and architecture of Greece and Rome and Introduction to Greek and Roman history – will be shared in common with students of ancient history and archaeology, classics, Greek and Latin. In addition you will study mythology and religion.

- **Art and architecture of Greece and Rome** – 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 Grecian myths, as illustrated in Greek and Roman art and literature, followed by a study of the chief features of Greek and Roman religion

Classics

COURSE CODE: TR021

PLACES 2004: 15

POINTS 2003: 390

Specific subjects required

Leaving Certificate	HC3	Greek or Latin
GCE Advanced level (A2)	Grade C	Greek or Latin

This single honor degree programme allows students to combine the study of both Greek and Latin. Students are required to have a qualification in one of the languages but the other may be started *ab initio* (from beginner level).

COURSE CONTENT

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

THE JUNIOR FRESHMAN YEAR

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

Core courses

- **Art and architecture of Greece and Rome** – 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)

Greek component (beginners)

- **Elementary Greek** – an introduction to the Greek language with emphasis both on comprehension and on grammar
- **Mythology and religion** – an examination of the chief Grecian myths, as illustrated in Greek and Roman art and literature, 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 select four courses from a wide list of options. Examples include:

- Homer
- Virgil's *Aeneid*
- Women in ancient Greece
- Plato and Socrates
- Literature and society in the early Roman Empire
- The ancient novel

THE SENIOR SOPHISTER YEAR

If you elect to study in the department in your final year you will study two special subjects in great detail. Options offered in the recent past have included Greek popular morality, the City of Rome, Jews in the Roman world, Cyprus, and drama and spectacle.

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

ASSESSMENT STRUCTURE

Assigned assessments, an end-of-year examination and a final year dissertation make up the evaluation process.

CAREER OPPORTUNITIES

Business, librarianship, museum work, publishing, teaching and theatre are some of the many fields recent graduates have entered.

FURTHER INFORMATION

www.tcd.ie/Classics
Tel: +353 1 608 1208

Greek component (non-beginners)

- **Greek language** – this course offers the revision and consolidation of basic morphology, grammar, syntax and vocabulary for students who have studied Greek in school.
- **Greek texts** – this course deals with selected portions of Homer's Odyssey and Iliad and of Herodotus' Histories

Latin component (beginners)

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

Latin component (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 students improve their fluency in reading and accuracy of translation through Greek and Latin translation classes. The course offers 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 students advanced study of a wide range of core literary texts and help them 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.

All students continue with the study of Greek and Roman history. 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 and is taught through a mixture of lectures and small-group seminars conducted in teams.

THE SENIOR SOPHISTER YEAR

In the Senior Sophister (fourth) year you will take two special subjects and research and write a thesis on a subject of your choice that is of relevance to the Classical world. Final year courses in the recent past have included Greek political philosophy, Greek lyric poetry and the House of Atreus.

FURTHER INFORMATION

www.tcd.ie/Classics
Tel: +353 1 608 1208

Drama & theatre studies and Drama studies

COURSE CODES:	TR025	TR001
PLACES 2004:	12	20
POINTS 2003:	510	350

These are restricted-entry courses.

Applications MUST be made 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.

Drama and theatre studies can be studied as a single honor degree (TR025). Alternatively, drama studies 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 one subject only is studied in the fourth and final year.

For permitted combinations see page 21.

Both degree tracks are four-year, non-vocational courses that combine historical, theoretical, and practical elements

Note:

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 page 77).

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 12 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 amount of 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. Teaching is by lecture, seminar and workshop, with a strong emphasis on experimental learning in theatre production. During these years, your courses include:

- **Theatre history:** a survey of the historical development of Western theatre and performance from the Greeks to the present
- **Performance analysis:** a detailed study of the methods used to analyse and classify performance types, their effect on audiences, their relationship to issues of race, class, and gender, and the sign systems used to understand them

- **Non-Western theatre:** an introduction to the major forms of theatrical expression in Asia and Africa
- **Introduction to film studies:** an introduction to the study and analysis of cinema from aesthetic, popular, and industrial perspectives

In the Junior Freshman (first) year these historical and theoretical courses are accompanied by a practical workshop. Senior Freshmen (second year students) are offered the possibility of gaining experience in student-directed scene work and a major staff-directed 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 analytic 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, stage and lighting design, directing, theatre management, puppetry, acting, film theory and film history. In your final year you will also undertake an individual project guided by a member of staff and research and write a dissertation.

ASSESSMENT STRUCTURE

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 take up to 50% of their 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. The School of Drama also has an exchange agreement with the University of California.

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.

The School of Drama 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 the School of Drama 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 further academic work at postgraduate level.

FURTHER INFORMATION

www.tcd.ie/Drama
Tel: + 353 1 608 2266

"Acting was my first love before I went to college. While I was at Trinity, however, I found I had an academic calling that had managed to elude me during my school days. It was a revelation really, and has changed my perspective completely.

I'm now working in film, mixing theory with the more practical elements of my dramatic experience. My job is thanks in no small part to several of my professors, who gave me the opportunity to collaborate with them on a few film projects they were running. It was a great experience – just like Trinity on the whole!"

Morgan Thomas, NBC, New York, USA –
TSM Drama and Spanish, graduated 2003

Economics

COURSE CODES:	TR081	TR001
PLACES 2004:	216	43
POINTS 2003:	470	450

Specific subjects required

Leaving Certificate	OC3 or 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 permitted combinations see page 21.

Alternatively, economics can 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 students may opt to take a single honor degree in economics or to combine economics with either business studies or political science.

For details of this course see page 81.

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.

WHO SHOULD STUDY 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, 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. Thus, if you are strong in mathematics and have an interest in current affairs, perhaps 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.

COURSE CONTENT

Junior Freshman (Year 1)	Senior Freshman (Year 2)	Junior Sophister (Year 3) select 3 from	Senior Sophister (Year 4) select either 2 or 4 from
Introduction to economics	Intermediate economics	Economic analysis	Economic theory
Mathematics & statistics	Economy of Ireland	Monetary & welfare economics	The world economy
	Economics of public policy	Economics of less developed countries	Economics of food markets
	Mathematical & statistical methods	Investment analysis	Economics of securities markets
		Industrial economics	Transport economics
		Mathematical economics	Industrial organisation theory
		Econometrics	Quantitative methods
		Environmental & urban economics	Economics of human resources
			International economics
			Monetary thought and policy

STUDY ABROAD

The Department has exchange agreements in place with the University of Köln (Germany), Tilburg University (the Netherlands), the Institut d'Études Politiques (Sciences Po) (Paris), the ESCP/EAP (Paris), HEC (Paris), universities in Louvain, Belgium and Queensland, Australia. In total, around 20% of all economics students at Trinity will spend part of their programme studying abroad.

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

www.tcd.ie/Economics
Tel: +353 1 608 1325

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 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) page 66.

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 by the School of Education, Trinity College 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 the facilities of the University.

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. In the Senior Sophister (fourth) year students undertake all their study within the School of Education in Trinity College. 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. Accordingly, throughout the degree, considerable emphasis is placed on the study of foundation subjects in education which are taught in Trinity College and specific courses taught in the Colleges of Education.

Courses taught in Trinity include: child psychology; language study; history of education; sociology of education; educational psychology; 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 regarded as 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

English literature and English studies

COURSE CODES:	TR023	TR001
PLACES 2004:	34	81
POINTS 2003:	505	530

Specific subjects required

Leaving Certificate	HC3	English
GCE Advanced level (A2)	Grade C	English literature (A or B)
	or	English language (A or B)

English studies is taken as a single honor degree (TR023).

Alternatively English literature must be taken in combination 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.

For permitted combinations see page 21.

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.

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 workload is less extensive than that of the single honor programme.

IS THIS THE RIGHT COURSE FOR YOU?

English literature or English studies would be particularly suitable 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.

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 this 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 this 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.

Single honor English studies students take all nine of the courses listed above.

TSM English literature students take the first six courses listed above.

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 structure

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.

CAREER OPPORTUNITIES

In 2002 18% of graduates progressed on to further study either in related fields such as film or cultural studies 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

www.tcd.ie/English
Tel: + 353 1 608 2301

European studies

COURSE CODE: TR024

PLACES 2004: 33

POINTS 2003: 505

Specific subjects required

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

GCE Advanced level (A2)

Grade C In two languages other than English or Irish

Or

Grade B In one language other than English or Irish

Students entering this programme will study two languages from French, German, Italian, Polish, Russian and Spanish. Italian, Polish and Russian are available from beginner level. No student may study more than one language as a beginner.

WHAT IS EUROPEAN STUDIES?

European studies can mean different things in different institutions. At Trinity the European studies programme 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.

COURSE OVERVIEW

Students entering this course will study two out of six European languages (French, German, Italian, Polish, Russian, Spanish). Italian, Polish and Russian can be studied from beginner level. Students also study the European past and present through three disciplines – history, history of ideas and social sciences (politics and sociology). The history of ideas is the compulsory core course in the first, second and fourth years and teaches the evolution of European thought and culture from the Renaissance to the present. The Junior Sophister (third year) of study is spent at a university abroad.

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 OBJECTIVES

This course aims to equip you with a high degree of linguistic competence in two European languages, an intellectual grasp of three broad academic disciplines, and an understanding both of the nature of contemporary Europe and of the forces which have shaped the European past.

COURSE CONTENT

History, history of ideas, politics and sociology are studied in tandem with your two chosen languages. You will study both languages equally in the first two years, after which one becomes your major, and the other your minor language.

The learning of language 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.

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 language, written and spoken expression and comprehension

- **History of Europe 1500-1700**
  This course 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 sociology**
  Introduction to basic sociological concepts and terms; an overview of the historical and theoretical development of the subject and a number of specific areas within sociology like social change, industrialisation, work, social stratification, gender, education, the family, and race and ethnicity.

- **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. The 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 language, 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.

Select one of:

- ☐ History of continental Europe since 1870
- ☐ West European politics
- ☐ Russian and East European Politics
- ☐ European societies

THE SOPHISTER YEARS

As an integral part of the programme, 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) and Spain (Saratov, 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

www.tcd.ie/European_Studies
Tel: +353 1 608 1808

"European Studies seemed the obvious choice to me. I loved history and loved languages and really wanted to spend a year studying abroad if at all possible. To an extent I was aware of my own strengths and this was a great course to build on those. You get lots of individual attention and need to make a lot of presentations, and this makes you ready for the real world.

I would never have had the idea to work in the communications field without having done this course. Cross-cultural awareness has become ingrained in me and I constantly see evidence of the need for good communication between people. Trinity gave me the confidence to set up my own business, but it is European Studies in particular that has taught me how to hold my own in any group of people."

Dr. Cathy Molohan, English Business, Hamburg, Germany – graduated 1994

Film studies

COURSE CODE: TR001

PLACES 2004: 20

POINTS 2003: 510

Film studies cannot be studied as a single honor degree. 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.

For permitted combinations see page 21.

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**
  Studies the evolution of film as a visual language with its own specific codes and conventions and introduces critical and theoretical debates about film practice as a foundation for further study. Studies in the second year pay particular attention to theories of genre and authorship.

- **Early American cinema**
  Introduces the key debates and research skills involved in the study of early American cinema. Charts the early period from the emergence of film to the industrialisation of commercial leisure, film spectacle and technological innovation. These periods are examined within broader cultural developments and historical changes linked with modern America.

- **Hollywood film industry and genre in the early sound era**
  Technological innovation, especially the impact of sound in the 1930s, will be explored in the context of developments in the American film industry, and of film styles – or genres – from the 1930s to the 1950s. Genres include gangster films, westerns and musicals.

- **Introduction to European cinemas**
  Introduction to the debate as to what constitutes a national cinema, focusing on a wide range of European national cinemas.

- **Introduction to World cinemas**
  Investigation of the relationship between the film industry and national culture as well as social and historical issues as they relate to India and China.

- **Comedy and gender**
  Promotes a serious critical consideration of the comedy genre. In particular, you will examine how its formal and stylistic variations inform issues of sexual difference and gender representation in American cinema.

- **European cinema – French and German cinemas**
  French cinema from the silent period up to today will be explored, with the emphasis on key movements such as Poetic Realism and New Wave cinema. German cinema is explored in relation to German socio-cultural history, film history and film form. Of particular interest will be the Weimar cinema and the New German cinema.

- **Cinema and Ireland**
  This course will enable you to explore the history of Irish cinema and the representations of the Irish and of Ireland in world cinema, particularly in American and British films.

- **Cinemas of the Pacific Rim**
  This course examines issues of nation and national cinema in relation to (post)colonialism and multiculturalism. Of particular interest will be the Hong Kong cinema, pre and post British rule, as well as the Chinese Diaspora. It will also address national and cultural identities portrayed in the cinemas of Australia and New Zealand.

THE SOPHISTER YEARS

A wide range of optional courses is available to students during the Junior and Senior Sophister (third and fourth) years. These include a course on scriptwriting and an introduction to the use of digital video.

DID YOU KNOW?

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

FURTHER INFORMATION

www.tcd.ie/Drama
Tel: + 353 1 608 2266

French

COURSE CODE: TR001

PLACES 2004: 84

POINTS 2003: 310

Specific subjects required

Leaving Certificate	HC1	French
GCE Advanced level (A2)	Grade C	French

French can also be studied through one of the following programmes:

TR011: Computer science, linguistics and French (page 101)

TR018: Law and French (page 63)

TR024: French with German/Italian/Polish/Russian or Spanish within European studies (page 40)

TR085: Business studies and French (page 84)

French cannot be studied as a single honor degree. 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 within European studies 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.

Within the joint honors TSM programme both subjects are studied for three years and one subject only is studied in the fourth year.

For permitted combinations see page 21.

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.

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 College will appeal to you.

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 subject options that are 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. To deepen your analytical understanding of how language and languages work you will also take the introduction to language study course delivered by the Centre for Language and Communication Studies.

First year subject areas include:

- **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 subject options leading on from courses previously undertaken in the Freshman (first and second) years is available. Courses 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 in the department for your final year you will research and write a dissertation in French on a subject of your choice in consultation with a supervisor.

ASSESSMENT STRUCTURE

Written, oral and aural examinations, in addition to essays and continuous assessment of your coursework, are all used within the French department. Senior Sophisters (fourth year students) will need to complete a final year dissertation.

STUDY ABROAD

You can opt to spend all or part of the second or third year at a university in France within the framework of a SOCRATES exchange programme. The French Department currently has exchange agreements with universities in Bordeaux, Caen, Nice, Paris, Tours and Lausanne. Many of our students work as language assistants during this time before returning to complete their studies. A minimum stay of two months in a French-speaking country is required over the duration of your course.

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

www.tcd.ie/French
Tel: + 353 1 608 1553

Geography

COURSE CODE: TR001

PLACES 2004: 35

POINTS 2003: 440

Geography can be taken in combination with one other subject within the two-subject moderatorship (TSM) programme.

For permitted combinations see page 21.

Alternatively, geography can be studied through the general faculty entry science (TR071) programme. After two years of general science study students select one of 13 degree options one of which is geography.

For special entry requirements to science (TR071) see page 23.

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 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 geography today.

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 142.

DID YOU KNOW?

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

ASSESSMENT

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 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.

Assessment in later years is by a combination of continuous assessment and end-of-year examination.

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

www.tcd.ie/Geography
Tel: + 353 1 608 1576

German

COURSE CODE: TR001

PLACES 2004: 32

POINTS 2003: 355

Specific subjects required

Leaving Certificate	HC1	German
GCE Advanced level (A2)	Grade C	German

German can also be studied through one of the following programmes:

TR026: Germanic languages (page 47)

TR010: Computer science, linguistics and German (page 101)

TR019: Law and German (page 63)

TR024: German with French/Italian/Polish/Russian or Spanish within European studies (page 40)

TR086: Business studies and German (page 84)

German can be studied either in combination with one other subject as part of a two-subject moderatorship (TSM) programme, be selected as one of the two languages studied within European studies, studied as the chosen language in either the computer science linguistics and a language, business studies and a language or law and a language degree programmes or within the single honor Germanic languages degree.

Within the joint honors TSM programme both subjects are studied for three years and one subject only is studied in the fourth year, except when German is combined with Jewish studies (in which case both subjects are studied for four years) or when it is combined with economics.

For permitted combinations see page 21.

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.

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 and 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 four key areas:

- The 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 on the Departmental website.
- 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.
- All Junior Freshman language students take the introduction to language study course offered by the Centre for Language and Communication Studies. This will deepen your analytical understanding of how language and languages work.

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, 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.

Germanic languages

COURSE CODE: TR026

PLACES 2004: 8

POINTS 2003: 345

Specific subjects required

Leaving Certificate	HC1	German
GCE Advanced level (A2)	Grade C	German

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

TR001: Joint honors programme in combination with one other subject (for permitted combinations see page 21)

TR010: Computer science, linguistics and German (page 101)

TR019: Law and German (page 63)

TR024: German with French/Italian/Polish/Russian or Spanish within European studies (page 40)

TR086: Business studies and German (page 84)

COURSE OVERVIEW

This course aims to equip you with a high degree of written and oral fluency in 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 Germanic tradition 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

In the Junior Freshman (first) year, you will have about 18 hours of lectures per week.

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 in the Department in the Senior Sophister (fourth) 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 STRUCTURE

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 final year dissertation.

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, Kiel 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. In recent surveys, German graduates – not just those taking 'vocational' combinations – were among the top half-dozen most employable groups.

FURTHER INFORMATION

www.tcd.ie/Germanic_Studies
Tel: +353 1 608 1373

Topics covered:

- **German and Dutch language**
  (Dutch is studied from beginner level)
- **The study of language and literature**
- **Textual analysis** – close reading and analysis of literary and non-literary texts in German
- **Area studies** – society, culture, history and institutions of the German-speaking and Low Countries
- **Historical linguistics of the Germanic languages** – how and why language changes over time and how the Germanic languages are interconnected
- **Modern German literature** – you will read and analyse modern German literary texts: short stories, plays, poetry and short novels
- **Medieval literature** – the romances of King Arthur, heroic epics or legends of the saints from the twelfth and thirteenth centuries in Germany, for example.

German and Dutch language classes build on this foundation in the Senior Freshman (second) year, and you will deepen your overall knowledge of linguistics and literature through seminars and further lectures. You also 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, will consider another linguistic or literary aspect of the course.

ASSESSMENT STRUCTURE

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

DID YOU KNOW?

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

FURTHER INFORMATION

www.tcd.ie/Germanic_Studies
Tel: + 353 1 608 1373

Greek

COURSE CODE: TR001

PLACES 2004: 10

POINTS 2003: 350

Specific subjects required

Leaving Certificate HC3 In Greek or in a language other than English

GCE Advanced level (A2) Grade C In Greek or in a language other than English

Greek cannot be studied as a single honor degree. 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. When studied as one subject of a two-subject moderatorship you can study Greek *ab initio* (from beginner level) as an intensive language component is available in first year.

For permitted combinations see page 21.

Greek may only be combined with Latin in the single honor Classics degree (page 32).

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 all students follow a course in Greek and Roman history and a course in Greek and Roman art and architecture. 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.

- **Art and architecture of Greece and Rome** – 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)

Greek for beginners

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

Greek for non-beginners

- **Greek language** – this course offers the revision and consolidation of basic morphology (the form of words), grammar, syntax and vocabulary for students who have studied Greek in school.
- **Greek texts** – this course deals with selected portions of Homer's Odyssey and Iliad and of Herodotus' Histories

THE SENIOR FRESHMAN AND JUNIOR SOPHISTER YEARS

In the second and third years students improve their fluency in reading and accuracy of translation through a translation class. The 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.

All students continue with the study of Greek history, concentrating on the three major periods: the Archaic 850-480 BC; the Classical 480-323 BC; and the Hellenistic 323-30 BC.

THE SENIOR SOPHISTER YEAR

If you elect to study in the department in your final year you will take two special subjects and research and write a thesis on a subject of your choice that is of relevance to the Classical world. Final year courses in the recent past have included Greek political philosophy, Greek lyric poetry and the House of Atreus.

ASSESSMENT STRUCTURE

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 archaeology, art restoration, banking and accountancy, business, civil service, computers, journalism and broadcasting, law, librarianship, museum work, publishing, teaching and theatre.

FURTHER INFORMATION

www.tcd.ie/Classics
Tel: + 353 1 608 1208

History

COURSE CODES:	TR003	TR001
PLACES 2004:	38	40
POINTS 2003:	460	510

History may also be studied under the following programme:

TR012 – History and Political Science (page 51)

History can be studied either as a single honor degree, in combination with one other subject as part of a joint honors two-subject moderatorship (TSM) programme, or as part of a special joint honors programme combining history and political science (see page 51).

When studied as one subject of a TSM, both are studied for three years and one subject only is studied in the fourth year, except where history is combined with geography.

For permitted combinations see page 21.

OVERVIEW

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.

IS THIS THE RIGHT COURSE FOR YOU?

All 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. History is particularly suitable 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 Junior Freshman year is under the supervision of the Department of Medieval History, while the Department of Modern History takes over your course of studies thereafter.

THE FRESHMAN YEARS

The Junior Freshman (first) year courses are outlined below.

Single honor 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**
  This course, which covers European history in the central middle ages, 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 papacy is also considered in great detail.

- **History of Britain 1000-1485**
  This course 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**
  This course seeks to highlight 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. These include:

- **History of Ireland, 1500-1800**
- **History of Ireland, 1800 to the present**
- **History of Britain since 1603**
- **History of the USA since 1607**
- **Culture and politics in Europe 1700-1870**
- **History of continental Europe since 1870**

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.

The choice of subjects available in the Sophister years (three and four) includes:

- The archaeology of medieval castles
- The age of Dante and Petrarch
- Ireland, Scotland and Wales in the later middle ages
- 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

ASSESSMENT STRUCTURE

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

CAREER OPPORTUNITIES

A good history degree will equip you with an enviable range of core transferable skills, especially the ability to think critically and to communicate effectively. This prepares you for a wide variety of careers in politics, journalism, publishing, teaching, the civil service, banking, public relations, communications, and the heritage and tourism industries. Equally, you might also like to undertake some postgraduate work in history or enrol for a professional qualification (such as law, accountancy, HR or business management) on the completion of your undergraduate History degree.

DID YOU KNOW?

There are approximately 20 lecturers and professors in the School of History. Their areas of study range in chronological breadth from the Middle Ages to the contemporary period.

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 courses as well.

STUDY ABROAD

The modern history department has SOCRATES exchange agreements with universities in France, Germany, Italy and the United Kingdom.

FURTHER INFORMATION

www.tcd.ie/Modern_History/index.htm
Tel: +353 1 608 1020

History and political science

COURSE CODE: TR012

PLACES 2004: 14

POINTS 2003: 525

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

TR001: Joint honors programme in combination with one other subject (for permitted combinations see page 21)

TR003: Single honor degree in history (page 50)

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 students 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 of this course see page 81.

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 history, political science, or to continue with both.

For details of courses in each subject see table on next page.

ASSESSMENT STRUCTURE

Essays, assignments and end-of-year examinations make up the assessment process.

CAREER OPPORTUNITIES

History 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

www.tcd.ie/Political_Science
Tel: + 353 1 608 1651

www.tcd.ie/Modern_History/index.htm
Tel: +353 1 1020

History Component

The courses in history 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.

Junior Freshman (first year) students select two of:

- History of Europe 1000-1250
- History of Britain 1000-1485
- History of Ireland 1014-1534
- History of Europe 1500-1700

Senior Freshman (second year) students select two of:

- 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 U.S.A. since 1607
- Culture and politics in Europe, 1700-1870
- History of continental Europe since 1870
- History of Ireland, 1800 to the present

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
- ☐ Ireland, Scotland and Wales in the later middle ages
- ☐ 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

Political Science Component

The work of the first two years is designed to provide you with a systematic foundation in the subject

Junior Freshmen (first year students) take three courses:

- Introduction to political science
- Introduction to sociology
- Introduction to economic policy

Senior Freshmen (second year students) take three courses:

- History of political thought
- Russian and East European politics
- West European politics

In the Sophister (third and fourth) years, you may choose to concentrate on particular aspects of the subject, including:

- ☐ Irish politics
- ☐ American politics
- ☐ East European politics
- ☐ West European politics
- ☐ Contemporary political theories
- ☐ Theoretical analysis of political parties
- ☐ Political behaviour
- ☐ Conflict and co-operation.

History of art and architecture

COURSE CODE: TR001

PLACES 2004: 28

POINTS 2003: 470

History of art and architecture cannot be studied as a single honor degree. 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.

For permitted combinations page 21.

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. The Department offers you opportunities to study topics such as 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 in the department 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. This week of intensive teaching is one of the special features of this Trinity course. In addition, if you are interested in a SOCRATES exchange during the Senior Freshman (second) year the department has exchange arrangements with universities in France, Germany, Italy and Spain. As you will be required to attend lectures in the language of your host institution you must possess the necessary linguistic fluency.

ASSESSMENT STRUCTURE

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

www.tcd.ie/History_of_Art
Tel: + 353 1 608 1995

www.douglashydegallery.com

Irish (Early Irish and Modern Irish)

COURSE CODE:	TR022	TR001 (EI)	TR001 (MI)
PLACES 2004:	15	10	30
POINTS 2003:	310	495	330

Specific subjects required

Leaving Certificate	HC3	Irish
GCE Advanced level (A2)	Grade C	Irish

Students may study:

EITHER early Irish (EI) in combination with one other subject (TR001)

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

For permitted combinations see page 21.

OR early and modern Irish (TR022)

EARLY IRISH COMPONENT

Early Irish cannot be studied as a single subject. It must be combined with one other subject within the two-subject moderatorship programme. TSM is a joint honors programme; both subjects are studied for three years and one subject only is studied in the fourth year. Early Irish may only be combined with modern Irish in the single honor Early and Modern Irish degree (TR022).

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 I

Senior Freshman (second) year courses:

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

THE SOPHISTER YEARS

Courses in the third and fourth years include:

- History of the language III (Ogham and primitive Irish)
- History of the language IV (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 STRUCTURE

Students must submit regular exercises and essays during the year, as well as complete an end-of-year examination. 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 on Iona around the year 800AD.

CAREER OPPORTUNITIES

Some students of early Irish carry on with postgraduate study, while many proceed to teacher training courses, or to work in the civil/public service or media.

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. When studied in combination with another subject, both are studied for three years and one subject only is studied in the fourth year.

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.

Core subjects: Junior Sophister (third) year:

- Composition
- Linguistics and dialect study
- Connacht dialect
- Munster dialect
- Ulster dialect
- Scottish Gaelic language

Core subjects: Senior Sophister (fourth) year:

- Irish palaeography
- Composition

In each of the third and fourth years four courses are selected 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)

Final year students also research and write a dissertation under the supervision of a member of the department.

ASSESSMENT STRUCTURE

Students submit regular exercises and, generally, one or two essays per subject during the year, and then sit an end-of-year examination in each subject. Final year students must complete a dissertation.

CAREER OPPORTUNITIES

Some students of modern Irish carry on with postgraduate study, while many proceed to teacher training courses, or to work in the civil/public service or media.

FURTHER INFORMATION

www.tcd.ie/Irish
Tel: + 353 1 608 1450

Italian

COURSE CODE: TR001

PLACES 2004: 30

POINTS 2003: 420

Specific subjects required

Leaving Certificate
HC3 in a language other than English

GCE Advanced level (A2)
Grade C in a language other than English

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

Within the joint honors TSM programme both subjects are studied for three years and one subject only is studied in the fourth year.

For permitted combinations see page 21.

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 page 40).

Italian can be studied *ab initio* (from beginner level) in all courses.

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.

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 Italian Department is small, with close contact between students and staff; you will receive individual attention and will be encouraged to discuss your progress at all times.

THE FRESHMAN YEARS

In the Junior Freshman (first) year in TSM, you will follow an intensive beginners course in grammar, translation, conversation, language laboratory and video work. The language is studied in varied and innovative ways: using a computer-based Virtual Learning Environment and audio and video work as well as books and conversation classes.

There are about eight classroom hours per week, most of the time being devoted to language learning in your first year. Each week includes several hours of grammar, one conversation class and one audio lab hour, and computer assignments to be done independently. You will be introduced to modern Italian poetry, drama and fiction in your second and third terms through two 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 an optional subject in an area of particular interest, which may include Italian history and society; the comedies of Goldoni; the descriptions of southern Italy by Carlo Levi and Ignazio Silone.

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

THE SOPHISTER YEARS

The Junior and Senior Sophister (third and fourth) years of the TSM course focus on the 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.

Considerable emphasis is placed on the development of critical abilities through independently researched essays and assignments. 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 prepare a dissertation.

ASSESSMENT STRUCTURE

Written, oral and aural examinations, in addition to essays and continuous assessment of your coursework, are all used within the Italian department. Senior Sophisters will, in addition, research and write a final year dissertation.

STUDY ABROAD

You may apply to spend the Senior Freshman (second) year at a European university. The Italian department has links with the University of Bologna, the University of Trieste, the University of Urbino and the University of Trento. A minimum two-month stay in Italy will be required of you at some time over the duration of your course.

CAREER OPPORTUNITIES

Recent career choices have included: internships with Irish companies in Italy; postgraduate study in arts, social sciences, law, medicine and business; journalism; teacher training; call centre work; translation work; employment with non-governmental organisations and commercial organisations in Italy and other continental countries.

FURTHER INFORMATION

www.tcd.ie/Italian
Tel: + 353 1 608 2062

"Languages have always appealed to me and I was keen in particular to study all things Italian. The pace was fast and furious at Trinity but it means you can hit the ground running when you arrive in a foreign country, which makes settling in so much easier. I've also discovered that the research and reasoning skills I picked up have proved very useful in my day-to-day role, and make me a more attractive candidate as time goes by."

Geraldine Murphy, AT Kearney, Milan, Italy – TSM French and Italian, graduated 1999

Jewish studies

COURSE CODE: TR001

PLACES 2004: 10

POINTS 2003: 540

Jewish studies cannot be studied as a single honor degree. 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, except where Jewish studies is combined with German. In this case both subjects are studied for four years.

For permitted combinations see page 21.

WHAT IS JEWISH STUDIES?

Jewish studies is concerned with the history, literature and religious practices and beliefs of the Jewish people from antiquity to the present day. By concentrating on one particular ethnic group, you will learn to understand the multiple dimensions and complexities of this and other cultures. You will also be able to examine global phenomena such as identity, migration, acculturation 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 identity formation, you should study Jewish studies. This course will be of interest to Jews and non-Jews alike.

COURSE CONTENT

Jewish studies covers all time periods in Jewish history and will provide you with an overview of the most important textual and material sources, issues, debates and methodologies. 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 which 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.

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

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

- **Introduction to rabbinic Judaism**
  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 remained important in medieval and modern times.

THE SENIOR SOPHISTER YEAR

If you elect to study Jewish studies in your final year courses may include:

- ☐ Jewish identity in the modern world
- ☐ The development of the synagogue
- ☐ The role and status of women in Judaism
- ☐ The image of Jews in medieval and early modern Christian texts

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 which offers a course in Jewish studies!

STUDY ABROAD

The programme offers all students the opportunity to study abroad and you will be encouraged to attend Summer Ulpan (Hebrew) courses in Israel and/or to spend a year in an Israeli or American university.

CAREER OPPORTUNITIES

The multidisciplinary nature of Jewish studies enables you to learn a variety of critical methodologies (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

www.tcd.ie/Bib_Theo/Herzog.htm
Telephone: +353 1 608 1297

Latin

COURSE CODE: TR001

PLACES 2004: 10

POINTS 2003: 420

Specific subjects required

Leaving Certificate
HC3 in Latin or in a language other than English

GCE Advanced level (A2)
Grade C in Latin or in a language other than English

Latin cannot be studied as a single honor degree. 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. When combined with another subject within the two-subject moderatorship you can study Latin *ab initio* (from beginner level) as an intensive language component is available in first year.

For permitted combinations see page 21.

Latin may only be combined with Greek in the single honor classics degree TR021 (see page 32).

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 both beginners and non-beginners courses 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 all students follow a course in Greek and Roman history and a course in Greek and Roman art and architecture. 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.

- **Art and architecture of Greece and Rome** – 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)

Latin for beginners

- **Elementary Latin** – an introduction to the Latin language, with an emphasis on comprehension and grammatical knowledge
- **Mythology and religion** – the chief Grecian myths, as illustrated in Greek and Roman art and literature, 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 SENIOR FRESHMAN AND JUNIOR SOPHISTER YEARS

In the second and third years students improve their fluency in reading and accuracy of translation through a translation class. Texts used for this 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.

All students continue with the study of Roman history, concentrating on the first three centuries of the Christian era, through a mixture of lectures and small-group seminars conducted in teams.

THE SENIOR SOPHISTER YEAR

Students who elect to study Latin in the final year take two special subjects and write a thesis on a subject of their choice 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 STRUCTURE

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 archaeology, art restoration, banking and accountancy, business, civil service, computers, journalism and broadcasting, law, librarianship, museum work, publishing, teaching and theatre.

FURTHER INFORMATION

www.tcd.ie/Classics
Tel: + 353 1 608 1208

Law

COURSE CODE:	TR004
PLACES 2004:	79
POINTS 2003:	540

WHY STUDY LAW AT TRINITY?

The Trinity Law School has students of the highest calibre and a strong team of lecturers and professors. It is ideally situated on the historic campus of Trinity College, 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 Law School's commitment to rigorous legal scholarship has placed it at the forefront of legal research in Ireland. In addition, the Law School is home to one of the 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 YOU?

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**
  This subject is designed (a) to introduce you to important institutions and doctrines of the Irish and European legal systems, and (b) to develop the necessary legal skills you will require 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**
  This course 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**
  This course focuses on certain fundamental rights questioned 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 a 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**
  The aim of this course is 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 (final two) years you will select four subjects from a list of about twenty. These 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.

Alternatively, in the final year you may select three optional subjects and write a dissertation on a selected topic. 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.

ASSESSMENT STRUCTURE

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 to students in the Junior Sophister (third) year, allowing some students to spend that year at a continental university. Optional language courses in the first two years must be undertaken should you wish to avail of this opportunity.

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 practice law as a solicitor or barrister. 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

www.tcd.ie/Law
Tel: + 353 1 608 1125

Law and French/ Law and German

COURSE CODES:	TR018 (FRENCH)	TR019 (GERMAN)
PLACES 2004:	10	10
POINTS 2003:	570	555

Specific subjects required

Leaving Certificate	HC1	French (TR018)
	HC1	German (TR019)
GCE Advanced level (A2)	Grade C	French (TR018)
	Grade C	German (TR019)

OVERVIEW

Law with French or German are demanding programmes that give you the opportunity to familiarise yourself with the law, language and culture of one of the principal continental civil law jurisdictions, in addition to receiving a grounding in Irish and general EU law. Far more is involved than simply attaching a language component to your law degree. Each programme is integrated so that language is taught in the context of developing an understanding of 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 itself, 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 introduction to civil law. Alongside this you will take an integrated course on language and civilisation covering aspects of sociology, legal systems, politics and constitutional law. 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
- Constitution

Senior Freshman courses

- Criminal law*
- Land law I*
- Contract*
- French or German civil law

*See page 61-62 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 University of Paris II – Panthéon-Assas, the University of Poitiers, or Sciences Po, Paris. For students of Law and German this will be at the Universities of Wurzburg, Göttingen, Tubingen, Mainz, Humboldt in Berlin or Erlangen-Nurnberg in Germany, or at the University of Linz in Austria.

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 either a Senior Sophister French/German topic or write a dissertation in French or German on an approved aspect of French or German law.

ASSESSMENT STRUCTURE

Assessment is by a combination of assignments and aural, oral and written examinations.

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 practice law as a solicitor or barrister. 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

www.tcd.ie/Law
Tel: + 353 1 608 1125

Mathematics

COURSE CODES:	TR001	TR031
PLACES 2004:	10	30
POINTS 2003:	450	365

Mathematics can be taken in combination with one other subject within the two-subject moderatorship (TSM) programme. This is a joint honors programme; in several combinations both subjects are studied for the first three years, mathematics finishing after 3 years and the other subject only is studied in the fourth and final year. Combinations where mathematics can continue to the final year include mathematics & economics, mathematics & philosophy.

For permitted combinations see page 21.

Alternatively, mathematics can be studied as a single honor degree (TR031).

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 course information see page 152.

Music

COURSE CODES:	TR002	TR001
PLACES 2004:	10	8
POINTS 2003:	430	530

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 on 2 April 2005 (provisional).

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.

Music can be studied either as a single honor degree or in combination with one other subject as part of 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.

For permitted combinations see page 21.

OVERVIEW

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 considerably 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 years (third and fourth).

THE SCHOOL OF MUSIC AT TRINITY

The School of Music has a recital room, plentiful 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 College Library also houses an extensive listening collection of compact discs.

IS THIS THE RIGHT COURSE FOR YOU?

As a student of the School of Music you will develop a valuable set of skills and attributes. 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.

COURSE CONTENT

This course provides a firm foundation in basic musical skills and, from the Senior Freshman (second) year, allows you to choose from a wide range of options within your main specialisation. These specialisations will be in the fields of composition, musicology and music technology.

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 I** – 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) you will continue with some of the subjects of the first year such as harmony and history. You will also begin to explore the specialisations available in the Sophister years. In the Sophister (third and fourth) years students select one area of specialisation from a range that comprises musicology, free composition, and music technology. 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 available within all specialisations 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

Students who specialise in composition will receive a thorough grounding in compositional techniques, and have the opportunity to have work performed by other students in the Composers' Forum Ensemble; they present a portfolio of their compositions as their final project. Those specialising in music technology produce a major project in their 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.

ASSESSMENT STRUCTURE

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. Recent graduates have developed careers in teaching, performance and administration, while others have undertaken postgraduate research in Ireland and abroad.

FURTHER INFORMATION

www.tcd.ie/Music
Tel: +353 1 608 1120

Bachelor in Music Education

COURSE CODE: TR009

PLACES 2004: 10

POINTS 2003: 375

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 on 2 April 2005 (provisional).

On the basis of the examination results, some applicants will be called to attend an interview during April before final selections are made.

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 by the University in conjunction with the Dublin Institute of Technology Conservatory of Music and Drama and the Royal Irish Academy of Music.

This four-year integrated 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 YOU?

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.

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

Music courses

Throughout the four years courses in music include:

- 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

Education courses include:

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

Complementary Subject – History

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 STRUCTURE

Evaluation of your work for this degree is made up of a combination of continuous assessment, practical and written examinations and teaching practice.

FURTHER INFORMATION

www.tcd.ie/Education/BachelorinMusicEducation.htm

Philosophy

COURSE CODE:	**TR005**	**TR001**
PLACES 2004:	**17**	**43**
POINTS 2003:	**470**	**470**

Philosophy may also be studied under the following programme:

TR014 – Philosophy and Political Science (page 69)

Philosophy can be studied either as a single honor degree, in combination with one other subject as part of a two-subject moderatorship (TSM) programme, or as part of a special joint honors programme combining philosophy and political science.

When studied within the joint honors TSM programme, in most cases both subjects are studied for three years and one subject only is studied in the fourth year.

For permitted combinations see page 21.

OVERVIEW

Single honor and TSM students follow the same philosophy courses. However, while TSM students cover all the principal areas of philosophy, the workload is half that of the single honor programme.

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.

The aim of the moderatorship in philosophy 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 one hour of 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 one hour of 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 STRUCTURE

Written examinations are combined with essays, logic tests and logic exercises. In your final year you must also complete 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 & research, film–making, banking, computing, advertising

FURTHER INFORMATION

www.tcd.ie/Philosophy
Tel: 01 608 1529

Philosophy and political science

COURSE CODE: TR014

PLACES 2004: 10

POINTS 2003: 505

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

TR001: Joint honors programme in combination with one other subject. For permitted combinations see page 21.

TR005: Single honor degree in philosophy (page 67)

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 students 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 of this course see page 81.

COURSE OVERVIEW

The many direct and indirect interdisciplinary links between philosophy and political science make this 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, while 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 STRUCTURE

Essays, assignments and end-of-year examinations make up the assessment process.

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

www.tcd.ie/Philosophy Tel: + 353 1 608 1529
www.tcd.ie/Political_Science Tel: + 353 1 608 1651

COURSE CONTENT

Philosophy 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 is a wide variety of subject options available, allowing you to specialise in areas of particular interest to you.

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

Senior Freshman (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

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 write an extended thesis and attend advanced seminars covering your chosen areas of research.

Political science component:

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:

- Introduction to political science
- Introduction to sociology
- Introduction to economic policy

Senior Freshman (second year) courses:

- History of political thought
- Russian and East European politics
- West European politics

In the Sophister (third and fourth) years, you choose to concentrate on particular aspects of the subject. Areas of study include Irish, American, East or West European politics, contemporary political theories, theoretical analysis of political parties, political behaviour, or conflict and co-operation.

Psychology

COURSE CODES: TR006		TR001
PLACES 2004:	31	17
POINTS 2003:	525	545

Psychology can be studied either as a single honor degree where psychology is read almost exclusively for four years or as one subject in a two-subject moderatorship (TSM) programme. In TSM, psychology is read with one other subject equally for the first three years and one subject only is studied iin the fourth year.

For permitted combinations see page 21.

OVERVIEW

Single honor and TSM students cover the same principal areas of Psychology. However, the programme of study is not so extensive for TSM students.

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?

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.

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

For both degree courses, the Junior and Senior Freshman (first and second) years of the course provide a broad foundation on which more advanced course work is built in the Sophister years (years three and four). In addition there is a practicals, methodology and statistics course which develops research skills in a systematic fashion.

There are five thematic areas in psychology:

- **Biological**
- **Cognitive**
- **Developmental**
- **Personality and individual differences**
- **Social psychology**

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 only.

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 **www.tcd.ie/Broad_Curriculum**).

PRACTICALS 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.

Optional courses include:

- Neuropsychiatry
- Memory, synaptic plasticity and the brain
- Clinical and experimental neuropsychology
- Neuroimaging of cognitive functioning
- Child development and family relationships
- Development and ageing
- Health psychology
- Clinical psychology and people with intellectual disability
- Human sexuality
- Creativity and imagination
- Organisational psychology
- Women and gender
- Forensic psychology
- Political psychology
- Environmental 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 Sophister year. Single honor students take an additional course in personal and career development and an advanced practicals, methodology and statistics course.

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 STRUCTURE

End-of-year written examinations are combined with continuous assessment to make up the evaluation process. In your final year, you will also submit a report of your research project.

CAREER OPPORTUNITIES

Many graduates go on to further professional training or to develop higher research skills. However, the advanced understanding of human behaviour and experience and the wide range of skills developed during the course provide strong credentials for entry into many professions, from management and accountancy, to journalism and broadcast media. Approximately 50% of psychology graduates proceed to a career in professional psychology.

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 who take psychology 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

www.tcd.ie/Psychology
Tel: + 353 1 608 1886

Russian

COURSE CODE: TR001

PLACES 2004: 36

POINTS 2003: 335

Specific subjects required

Leaving Certificate
HC3 in a language other than English

GCE Advanced level (A2)
Grade C in a language other than English

Russian can also be studied through one of the following programmes.

TR024: Russian with French/German/Italian/Polish or Spanish within European studies (page 40).

TR086: Business studies and Russian (page 84).

Russian cannot be studied as a single honor degree – it must either be combined with one other subject as part of a two-subject moderatorship, be selected as one of the two languages studied within European studies or studied as the chosen language of the business studies and a language degree programme.

Within the joint honors two-subject moderatorship (TSM) programme both subjects are studied for three years and one subject only is studied in the fourth and final year.

For permitted combinations see page 21.

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 can be studied *ab initio* (from beginner level) in all courses.

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 YOU?

You will find the Russian programme exciting and rewarding if you:

- Enjoy language study.
- Are interested in unfamiliar cultures.
- Have a sense of adventure and are not afraid of a challenge.

Russian cannot be studied as a single honor subject. It must either be combined with one other subject as part of a two-subject moderatorship, be selected as one of the two languages studied within European studies or studied as the chosen language of the business studies and a language degree programme.

COURSE CONTENT

Nearly all students start Russian from scratch with an intensive first year language course although special provisions can be made for students with prior knowledge of the language. 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 Junior Freshman (first) year, classes cover two main areas:

- **Language:** grammar and fluency in reading, writing, speaking and listening.
- ***Stranovedenie:*** the study of Russian history, culture and society

In the Senior Freshman (second) year, areas of study will be:

- **Practical language**
- **Introduction to Russian literature**
- **Introduction to Russian history**

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 remain in the department in your final year you will also write a dissertation on a subject of your own choice.

ASSESSMENT STRUCTURE

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 study Russian and Polish!

STUDY ABROAD

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

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.

FURTHER INFORMATION

www.tcd.ie/Russian
Tel: + 353 1 608 1896

Sociology

COURSE CODE: TR001

PLACES 2004: 59

POINTS 2003: 440

Sociology can be studied either in combination with one other subject as part of a joint honors two-subject moderatorship (TSM) programme, or as part of a special joint honors programme combining sociology and social policy (see page 85).

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.

For permitted combinations see page 21.

Alternatively sociology can 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 students may opt to take a single honor degree in sociology or to combine sociology with either business studies or political science. For details of this course see page 81.

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 and Europe to 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 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 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 courses in social theory and researching society and select one of:

- ☐ Culture and society
- ☐ Globalisation and development
- ☐ Themes in sociological enquiry

STUDY ABROAD

Students in the department may participate in SOCRATES exchanges that allow them to study sociology in continental Europe as part of their degree at Trinity. The Department of Sociology has exchange agreements 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

The skills and knowledge acquired can be applied in many areas. However a degree in sociology is particularly relevant to those students wishing to pursue a career in the public service, or in social research, in statutory or voluntary social service organisations, or community development. These areas offer a wide and expanding range of employment opportunities.

FURTHER INFORMATION

www.tcd.ie/Sociology
Tel: + 353 1 608 1871

Spanish

COURSE CODE: TR001

PLACES 2004: 39

POINTS 2003: 330

Specific subjects required

Leaving Certificate
HC3 in a language other than English

GCE Advanced level (A2)
Grade C in a language other than English

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

Within the joint honors TSM programme both subjects are studied for three years and one subject only is studied in the fourth year. Spanish can be studied *ab initio* (from beginner level) as the Spanish course is designed to develop your language proficiency in written and spoken Spanish.

For permitted combinations see page 21.

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. It is not possible to begin Spanish *ab initio* in this programme (see page 40).

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.

You will attend the following:

- **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 language study**
- **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

Students 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 remain in the department 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 together with written and oral examinations at the end of each year make up the assessment process.

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, and 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

www.tcd.ie/Hispanic_Studies
Tel. + 353 1 608 1257

Bachelor in Acting Studies

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

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, 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 April 2005 for entry to the academic year commencing in October 2005.

Application forms are available to download from **www.tcd.ie/Admissions**

Alternatively, hardcopy application forms may be obtained from:

Admissions Office, West Theatre, Trinity College, Dublin 2.
Tel: +353 1 608 1039, 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 the Irish theatre tradition, 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 (about 12 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. Students also receive introductory training in stage management, lighting, sound, set construction, costume and front-of-house activities.

In the first two years, students study acting, improvisation, voice, singing, movement, dance, and text speaking, 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 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 Irish theatre. They prepare a formal audition showcase for theatrical agents, casting directors and theatre directors, which is performed at the Abbey Theatre and at a major theatre in London. Throughout the course, students can expect to be in classes or rehearsals on a full-time basis.

FURTHER INFORMATION

www.tcd.ie/Drama
Tel: + 353 1 608 2266

Diploma in Deaf Studies

Application Procedure

This is a non-CAO course. Students wishing to apply for admission are required to obtain an application form from the Centre for Deaf Studies. Completed applications must be returned by 1st May 2005 for entry to the academic year commencing in October 2005.

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**

The Government's Free Fees Initiative DOES cover this course. 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. 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. The 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, the 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 a non-CAO course. Students wishing to apply for admission are required to obtain an application form from the Centre for Deaf Studies. Completed applications must be returned by 1st May 2005 for entry to the academic year commencing in October 2005.

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**

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 consists of a two-year full-time course and includes professional placement opportunities. It provides a full 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 a non-CAO course. Students wishing to apply for admission are required to obtain an application form from the Centre for Deaf Studies. Completed applications must be returned by 1st May 2005 for entry to the academic year commencing in October 2005.

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**

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 consists of a two-year full-time course that includes regular teaching practice. It provides a 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 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 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 a non-CAO course. Students wishing to apply for admission are required to obtain an application form from the Church of Ireland Theological College. Completed applications must be returned by 1 July 2005 for entry to the academic year commencing in October 2005.

Application forms available from:
The Principal of the Church of Ireland Theological College, Braemor Park, Dublin 14

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.

FURTHER INFORMATION

Church of Ireland Theological College, Braemor Park, Dublin 14
www.citc.ie
Tel: +353 1 492 3506

Faculty of Business, Economic and Social Studies

Introduction

The Faculty of Business, Economic and Social Studies (BESS) comprises:

- School of Business Studies

  and the departments of

- Economics
- Political Science
- Sociology
- Social Studies

Undergraduate programmes

- **TR081**
  Moderatorship (B.A.) in Business, Economic and Social Studies or
  Bachelor in Business Studies (B.B.S.)

- **TR085 – TR087**
  Bachelor in Business Studies and a Language (B.B.S.(Lang.))

- **TR083**
  Moderatorship (B.A.) in Sociology and Social Policy

- **TR084**
  Bachelor in Social Studies (B.S.S.) (social work)

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 21 for permitted combinations. Political science can be combined with history (TR012) or philosophy (TR014).

Direct entry (non-CAO) diploma courses include counselling and addiction studies. The Bachelor in Science degree in Business Studies and Information Technology (B.Sc. (Bus. And Inf. Tech.)) is a direct entry (non-CAO) part-time evening programme.

BUSINESS STUDIES

Trinity's School of Business Studies is ranked in the top 15 Business Schools in Europe by both the Financial Times and The Economist. It works within the framework of a unique integrated curriculum in business studies. The school is recognised for its critical and rigorous approach to management, for its internationalism and for the exceptional calibre of its students.

ECONOMICS

A significant feature of economics at Trinity College is the wide range of options from which you can choose. In addition to core subjects in the theory of economics in each year, you will have the opportunity to apply this theory to real world problems in courses such as public policy, the economics of less developed countries, investment analysis, transport economics and industrial economics.

POLITICAL SCIENCE

The Political Science Department 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.

SOCIOLOGY

The Sociology Department teaches courses in a wide variety of areas of sociology including development and the Third World; questions of race and ethnic identity; relations to nature and the environment; popular culture; work and management; the ways people use language; and questions of gender and the position of women in society.

SOCIAL STUDIES

Social work and social policy are the core disciplines of the Department of Social Studies. Recent research undertaken by staff includes work in relation to lone parents, child protection practices, asylum seekers and the voluntary sector.

Three key features of the BESS programmes 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 BESS Faculty. The BESS Faculty enjoys close relations with high prestige 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. BESS 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 2004:	**216**
POINTS 2003:	**470**

Specific subjects required

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

COURSE OVERVIEW

The structure of the BESS course reflects the Faculty's commitment to providing students with a broadly based education in economic and social sciences, combined with the opportunity to specialise to a high level in a chosen subject or area.

BESS (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.

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 with smaller tutorial groups in which individual members of staff work with students in small group discussions throughout the year. Small group teaching is particularly important in the Junior Freshman (first) year where numbers attending lectures tend to be high. 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 social policy, law, psychology, and economic geography. If you decide to continue with French or German and successfully complete this 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.

For information on the Broad Curriculum see the website **www.tcd.ie/Broad_Curriculum**

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.

Following the Junior Sophister (third year) examination you can apply for the award of an Ordinary B.A. (without honors) if you either choose to or are not qualified to proceed to the Senior Sophister (fourth) year.

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

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 universities in Europe, North America, Australia and in several Asian countries, including Japan, Hong Kong, Taiwan and South Korea.

There are also 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 path. 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
- Social work and counselling

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 **www.tcd.ie/BESS**

TR081 BESS at a glance

All students in TR081 follow a common first year.

At the end of the second year you will select one of ten alternative degrees as outlined below.

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
	Western European society	Contemporary European Integration
Optional courses:	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.	** Economics and sociology may be combined only within the two-subject moderatorship programme (TR212).
	For information on the Broad Curriculum see the website **www.tcd.ie/Broad_Curriculum**	See page 21 for all other permitted combinations of subjects with economics and with sociology.
	*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.	

"I chose BESS because I really wanted to do business, even though I'd never done it at school. I realised, however, by the end of second year that I actually preferred economics, and was surprised by the difference between the courses. That's definitely the beauty of BESS – you get a chance in first and second year to try courses in a huge range of topics before you specialise in one or two areas.

Not surprisingly, with such a wide range of subjects there's a great mix of people in BESS and it's no coincidence that BESS students have the reputation of having the best social life in college! So not only is this a great way to find out what you really like studying, it's also a great course for experiencing life beyond the academic world."

Grellan McGrath – graduated 2003

Business studies and a language (French, German or Russian)

COURSE CODES:	TR085 (French)	TR086 (German)	TR087 (Russian)
PLACES 2004:	15	20	7
POINTS 2003:	460	420	440

Specific subjects required

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 Advanced level (A2)	Grade C	French (TR085)
	Grade C	German (TR086)
	Grade C	In a language other than English (TR087)

COURSE OVERVIEW

The School of Business Studies, in conjunction with relevant language departments from the Faculty of Arts (Letters), offers a degree programme involving the study of business with one of three languages: French, German or Russian. The Junior Sophister (third) year of this degree programme must be spent abroad.

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, including grammar. Do note that learning a language *ab initio* (from beginner level – as with Russian) requires a more intense effort on your part, particularly in the Freshman (first two) years, than continuing a language you have already taken to Leaving Certificate or an equivalent standard.

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 and culture.

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 from the outset through the medium of 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

- Language application and grammar
- 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. The School of Business Studies 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 STRUCTURE

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 be expected to have high-level competency in the language, including translation, specialised correspondence and business report writing. You will also have rich insights into another society, its culture and its organisational life, together with a strong academic knowledge of international business and management. You will be particularly well qualified, therefore, for careers in international management.

FURTHER INFORMATION

Email: **bussec@tcd.ie** or visit **www.tcd.ie/Business_Studies**

Sociology and social policy

COURSE CODE:	**TR083**
PLACES 2004:	**20**
POINTS 2003:	**465**

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?

Managed jointly by the Department of Social Studies and the Department of Sociology, this course demands both academic and vocational qualities. It is particularly relevant to those intending to pursue a career in management, planning or evaluation within the social services and social 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.

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 a 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.

Social studies (social work)

COURSE CODE:	TR084
PLACES 2004:	30
POINTS 2003:	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?

A vocational degree in large part, social studies is the right course for you if 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 moving up to concentrate on social work subjects in the Senior Sophister (fourth) year. 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.

THE SOPHISTER YEARS

The choice of subjects available in the Sophister years (three and four) include:

- Social security
- Race and ethnic identity
- Crime
- Third World development
- 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 STRUCTURE

Teaching methods include lectures, seminars and group project work. A combination of continuous assessment and written examinations will generally be used.

CAREER OPPORTUNITIES

The range of employment opportunities in the area of social 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

www.tcd.ie/Sociology or Tel: +353 1 608 1871

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 will either continue with your optional language studies or choose one elective course covering sociology, politics or economics.

THE SOPHISTER YEARS

Junior and Senior Sophister (third and fourth) year subjects include:

- **Social work practice**
- **Family and child care studies**
- **Social policy**
- **Sociology**
- **Psychology**
- **Mental health**
- **Equality issues**

An in-depth overview of international social work also takes place throughout the four years.

ASSESSMENT STRUCTURE

You will be supported in your professional development by social work course tutors – in a small group setting in the Junior Freshman (first) year, and on a one-to-one basis in the three subsequent years. Assessments are made on the basis of written examinations and on 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 practical experience and an opportunity to develop and apply the skills and knowledge acquired in College. Placements are arranged in settings such as Health Board community care teams, hospital social work departments, child and family centres, prisons, 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.

CAREER OPPORTUNITIES

As a graduate of the University of Dublin, you are eligible for immediate employment as a professionally qualified social worker.

FURTHER INFORMATION

www.tcd.ie/Social_Studies/ugdeg.htm
Tel: +353 1 608 2001

Bachelor in Business and Information Technology (evening attendance)

APPLICATION PROCEDURE

This is a non-CAO course. Application forms are available to download from **www.tcd.ie/Admissions**. Alternatively, hardcopy application forms may be obtained from the Admissions Office. Completed applications must be returned by 30 June 2005 for entry to the academic year commencing in October 2005.

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

The result of a major collaborative effort between Trinity College and its partners in industry, this four-year Bachelor's evening degree programme has been designed for business professionals interested in understanding and applying information technology (IT) as a strategic business tool. It addresses the requirements of both prospective managers who need to exploit the potential of computer-based information systems, and the needs of IT specialists who wish to develop their careers by broadening their business management disciplines.

COURSE CONTENT

The programme is divided into two principal areas of study, namely management and IT.

Courses in the 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 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 while identifying appropriate strategies for selecting, evaluating, constructing and implementing IT-based solutions for operational, managerial and strategic purposes.

The degree, which is delivered jointly by the Department of Computer Science and the School of Business Studies, is taught on a modular basis on three evenings each week and some Saturday mornings over 24 weeks of the academic year. Prospective students will come from large, medium and small indigenous companies, multinational subsidiaries, as well as the state, semi-state and financial services sectors. In exceptional circumstances, students who have a recognised formal qualification at a sufficiently high level may be permitted to enter the second year of the programme.

FURTHER INFORMATION AND APPLICATION FORMS

Visit **www.tcd.ie/Business_Studies/Undergrad/bit.html** or email **admissns@tcd.ie**

Diploma in Addiction Studies

APPLICATION PROCEDURE

This is a non-CAO course. Students wishing to apply for admission are required to obtain an application form from the Department of Social Studies. Completed applications must be returned in mid-April 2005 for entry to the academic year commencing in October 2005.

Application Forms available from:

Diploma in Addiction Studies,
Department of Social Studies,
Room 3063, Arts and Social Sciences Building,
Trinity College, Dublin 2.
Tel: (01) 608 1163 (mornings only)
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 **www.tcd.ie/Social_Studies/ugdip.html**

Diploma in Counselling

Entry to the Diploma in Counselling is on alternate years only. There will be an intake in 2005 and again in 2007.

APPLICATION PROCEDURE

This is a non-CAO course. Students wishing to apply for admission are required to obtain an application form from the Department of Social Studies. Completed applications must be returned in mid-April 2005 for entry to the academic year commencing in October 2005.

Application Forms available from:
Diploma in Counselling,
Department of Social Studies,
Room 3063, Arts and Social Sciences Building,
Trinity College, Dublin 2.
Tel: (01) 608 1985 (afternoons only)
Email: **stewarts@tcd.ie**

The Government's Free Fees Initiative does NOT cover this course. All students registered for the Diploma in Counselling are required to pay tuition fees.

A part-time programme run over two academic years, the Diploma in Counselling offers formal training for anyone who provides counselling, personnel or employee assistance services as a regular part of their work.

The course covers the theory and practice of counselling through three major components: academic, experiential and clinical practice and supervision. The orientation of the course is towards the humanistic/developmental approaches to counselling. Candidates are selected by group interview and criteria for selection include relevant experience, personal suitability, and likely capacity to satisfy the academic and other requirements of the programme.

FURTHER INFORMATION

Visit **www.tcd.ie/Social_Studies/ugdip.html**

Faculty of Engineering and Systems Sciences

Introduction

It is said that nowadays we live in a "knowledge society". The programmes and activities associated with the Faculty of Engineering and Systems Sciences reflect much that underpins and supports this knowledge society.

The Faculty of Engineering and Systems Sciences comprises two schools. Within each school there may be several departments offering teaching in a range of disciplines.

Undergraduate programmes

Computer Science

- Moderatorships (B.A.) in Computer Science, Information and Communications Technology and Computer Science, Linguistics and a Language
- B.Sc. Computer Science (evening course)
- Programme in Information Systems

Engineering

- Bachelor in Arts and Bachelor in Engineering (B.A., B.A.I.) with specialisations in
  - Civil, structural and environmental engineering
  - Computer engineering
  - Electronic engineering
  - Electronic and computer engineering (joint programme)
  - Mechanical and manufacturing engineering
  - Bachelor in Science (B.Sc. (Ing.)) in Manufacturing engineering with management science

Systems and data studies

- Moderatorship (B.A.) in Management Science and Information Systems Studies (MSISS)

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, 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 faculty entry)

COURSE CODE: TR032

PLACES 2004: 175

POINTS 2003: 445

Specific subjects required

Leaving Certificate	HC3	Mathematics
GCE Advanced level (A2)	Grade C	Mathematics

WHAT IS ENGINEERING?

Engineering uses 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 to both 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 you 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 are able to 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 five specialist areas. 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 you will 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.

All specialist areas require students to submit a substantial design project as part of their final year assessment.

ASSESSMENT STRUCTURE

Assessment in each of the first two years is by means of written examination, primarily at the end of the last term, combined with assessment of coursework during the year. Typically, end of year examinations contribute at least 50% towards your grade in each subject.

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	2	3	4	5
School	Junior Freshman (TCD)	Senior Freshman (TCD)	Junior Sophister (INSA)	Senior Sophister award of B.A.I. (TCD)	INSA 5th year: award of Diplôme

At the end of a five year programme Trinity College Dublin (TCD) students may receive, in addition to the B.A.I. from the University of Dublin, the Diplôme de l'INSA, which confers full professional accreditation in France.

TR032 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** page 94
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** page 99
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** page 96
Introduction to engineering An introduction to engineering by each of the Departments in the School 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** page 95
	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)** page 97

LANGUAGES

There is an optional language course in French or German, in the Senior Freshman and Junior Sophister (second and third) years. Both courses continue over the two years.

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

Visit www.tcd.ie/Engineering/about

"Maths was easily my favourite subject in school, so engineering was on the cards for me as soon as I knew for definite that I wanted to go to university. I could have chosen a pure maths degree but I was intrigued by the diversity of the Engineering programme at Trinity.

It was a tough course, no doubt about it, but it was also great fun and tremendously interesting. In fact, the further into the course we got the more interesting it became, particularly because we'd all reached the point where we'd found our core strengths. If you're willing to work hard and enjoy finding out how things work, engineering is genuinely a fantastic option. Now that I'm putting the theory behind my structural engineering background into practice every day I'm more aware than ever that I've found something I love doing."

Aoife Deasy,
Barrett Mahony Consulting Engineers – graduated 2002

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 one of five specialist areas.

See page 92.

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 which travellers make enables the engineer to influence users to make better choices for the environment and for each other.

As you can see, this engineering specialism combines a unique set of skills – analytical and practical, as well as creative and environmental. Some areas, 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 need 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. 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 will take place in the laboratory and there is a lot of project work involved on the course. 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 much sought after and are often employed in the banking industry, in law firms and in business areas. The numeric 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

www.tcd.ie/Civil_engineering
Tel: +353-1-608 1832

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 one of five specialist areas.

See page 92.

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 – all products that weren't even imagined 30 years ago, but have now been realised by the ingenuity of the computer engineer.

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

www.cs.tcd.ie
Tel: +353 1 608 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 one of five specialist areas.

See page 92.

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?

As a student of electronic engineering you will study the following:

- **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 specialist subjects from a range that extends 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 have laboratory access to allow individual work on your project.

STUDYING ABROAD

You may choose to spend the Junior Sophister (third) year a European university as part of the SOCRATES programme. Agreements exist with many distinguished institutions in France, Italy and Germany.

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

www.mee.tcd.ie/courses.html
Tel: +353 1 608 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 one of five specialist areas.

See page 92.

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 a total of 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 page 96) and computer engineering (see page 95) options into one course.

As a student of electronic and computer engineering you will study a choice of subjects from:

- **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 coordinate, manage and control the allocation of computer resources to other programs
- **Distributed systems** – programs working in a coordinated 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 1 608 1765

Department of Electronic and Electrical Engineering
www.mec.tcd.ie/courses.html
Tel: +353 1 608 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 one of five specialist areas.

See page 92.

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. And 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?

Choosing this degree option means you will study the following:

- **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 at the department. 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

www.mme.tcd.ie
Tel: + 353 1 608 1383

Computer science

COURSE CODE: TR033

PLACES 2004: 65

POINTS 2003: 340

Specific subjects required

Leaving Certificate	HC3	Mathematics
GCE Advanced level (A2)	Grade C	Mathematics

The information and communications technology (ICT) course (TR037) has been merged with the Computer Science course (TR033) to form a combined degree programme.

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 honors degree programme gives you the skills required to work as a computer scientist. It teaches you the fundamental principles of computer software, information management, computer hardware, telecommunications, mathematics, and the inter-relationship of computers and society.

WHAT WILL YOU STUDY?

There is a significant amount of theoretical knowledge which needs 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.

There will be some options available in the Junior Sophister (third) year (such as formal methods, advanced telecommunications, advanced computer architecture) and students choose their main areas of specialisation in the Senior Sophister (fourth) year.

COURSE CONTENT

Core courses in the first three years:

Computer Software – Programming and Systems
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

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 include 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.

Optional Course
French or German can be taken as an optional course in the Junior Freshman (1st) and Senior Freshman (2nd) years for students who wish to spend the third year studying abroad.

Computer science, linguistics and a language (CSLL)

COURSE CODES:	TR010 (German)	TR011 (French)	TR013 (Irish)
PLACES 2004:	10	10	5
POINTS 2003:	400	385	AQA*

Specific subjects required

Leaving Certificate	HC3	Mathematics (TR010, TR011 & TR013)
	HC1	German (TR010)
	HC1	French (TR011)
	HB3	Irish (TR013)
GCE Advanced level (A2)	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 languages used in computer science.

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 your time will be 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 your language skills and giving you first-hand experience of university life in another country.

The final year offers students the opportunity of exploring in greater depth areas where computers and language meet.

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.

Senior Sophister (4th year) options include:

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

STUDY ABROAD

You may apply to spend third year studying at a European university as part of the SOCRATES 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 PricewaterhouseCoopers); 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 1 608 1765

*AQA – all qualified applicants

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 gives you 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 FRESHMAN YEARS

Junior and Senior Freshman (first and second year) courses:

Computer Science

Junior Freshman (1st) year

- Mathematics
- Introduction to programming
- Introduction to computing

Senior Freshman (2nd) year

- Discrete and continuous mathematics
- Programming techniques
- Systems programming and natural language processing

Linguistics

Junior Freshman (1st) year

- Introduction to the study of language (general linguistics)
- Introduction to phonetics and phonology
- Introduction to syntax

Senior Freshman (2nd) year

- Syntactic theory
- Introduction to speech science
- Formal semantics
- Instrumental phonetics

Language

Junior Freshman (first) year and
Senior Freshman (second) year

- French/German/Irish

THE SOPHISTER YEARS

Junior Sophister (third year) students study computer science and linguistics in a European university. Exchange programmes exist with universities in Austria, France, Belgium, Germany and Scotland. The subjects you study during this year will depend on the specialist area of the particular university you choose, allowing you to build a tailor-made degree.

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. 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.

ASSESSMENT STRUCTURE

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. You can work in IT, banking, translation, publishing or multi-media. In fact, you are qualified for any position that uses computer skills or requires a high level of literacy and numeracy. Graduates from this programme have gone into a wide range of fields: software engineering, management consultancy, academic research, technical translation and patent inspecting.

FURTHER INFORMATION

www.cs.tcd.ie/courses/csll
Tel: +353 1 608 2659

Management science and information systems studies (MSISS)

COURSE CODE: TR034

PLACES 2004: 24

POINTS 2003: 465

Specific subjects required

Leaving Certificate	HC3	Mathematics
GCE Advanced level (A2)	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 basic 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 technology and systems.**

Interpersonal skills such as interviewing and making presentations are taught both explicitly and implicitly (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 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 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
- Manufacturing systems

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 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 take one of French, German, Spanish or Italian as an optional language module.

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 (seven 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 very wide and spans business studies, economics, computer science, statistics, mathematics and engineering. The courses currently offered include financial and management accounting, economics, management, mathematics, marketing management, statistical models and manufacturing systems.

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, Irish Life, Dublin Corporation Credit Union, the Alzheimer's Society of Ireland and the RDS to name but a few.

ASSESSMENT STRUCTURE

You will be assessed by 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. A number of recent graduates have started their own companies.

FURTHER INFORMATION

www.msiss.com
Tel: + 353 1 608 2186

Manufacturing engineering with management science (MEMS)

COURSE CODE: TR038

PLACES 2004: 20

POINTS 2003: 330

Specific subjects required

Leaving Certificate	HC3	Mathematics
GCE Advanced level (A2)	Grade C	Mathematics

WHAT IS MEMS?

Manufacturing engineering with management science (MEMS) is concerned with the analysis, design, improvement, installation and management of integrated systems of people, finances, materials and equipment.

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. MEMS draws upon specialised knowledge in a wide range of disciplines such as the management of people, finances, sales, marketing, production, project management and communications and combines it with expertise in the principles and methods of engineering analysis and design.

COURSE OVERVIEW

This four-year course leads to an honors engineering degree. It 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 course is broad in scope and aims to develop both the technical and business aspects of engineering. 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.

WHAT WILL YOU STUDY?

The course is structured around themes that are developed over the four years. These themes are:

- General engineering
- Design
- Manufacturing engineering
- Management science
- Materials science
- Business

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.

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 MEMS	Development of themes in engineering and management introduced in the Junior Freshman 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 & control Vibrations & acoustics Fluid mechanics Biomechanics Tribology
Management Theme: Management science	**Management Themes:** Accounting & 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

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 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 amount of business and project management content.

ASSESSMENT STRUCTURE

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 a graduate of this course you will have a wide range of skills that will allow you to excel quickly in both the engineering and engineering management fields. You will also be well qualified to pursue careers in project management and management consultancy.

FURTHER INFORMATION

www.mecheng.tcd.ie/mems
Tel: + 353 1 608 1367

B.Sc. in Computer Science (evening attendance)

COURSE CODE: TR036

Specific subjects required

Leaving Certificate	OB3/HD3	Mathematics
GCE Advanced level (A2)	Grade D	Mathematics
or		
GCSE	Grade A	Mathematics

This is a part-time evening course. Application should be made through the Central Applications Office (CAO). Where the course is not filled by the late closing date of 1 May application can be made through the 'Vacant Place' procedure.

The Government's Free Fees Initiative does NOT cover this course. All students registered for the B.Sc. in Computer Science are required to pay tuition fees.

INTRODUCTION

Information technology and its applications have become two of the most central points of all businesses. In line with this, there is a continuous demand for well-educated professionals with a knowledge of computing.

COURSE OVERVIEW

This course allows you to study for your degree while remaining in full-time employment. Classes are held from 7pm to 10pm each Monday, Tuesday and Thursday evening and from 9.30am to 12.30pm on Saturday mornings.

In addition to covering computer science subjects, the course also includes topics on general business organisation. It provides a broad based qualification to prepare you for a career in technical, supervisory or managerial positions in all organisations. It will also teach you about the capabilities of the computer as a management tool.

IS THIS THE RIGHT COURSE FOR YOU?

As a student on this course you will be expected to commit to three evenings as well as to one weekend morning each week between October and May. You will also be required to make time for course work and examination preparation.

If you are keen to progress your career and take it to management level while simultaneously staying in full-time employment then this course is right for you.

COURSE CONTENT

Today, the modern manager must understand the full capabilities of computers and information technology. This course gives you these skills and qualifications by presenting courses that cover accountancy, law and strategic planning in tandem with topics specifically relating to computer science.

THE FRESHMAN YEARS

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

- **Quantitative methods** – mathematics and statistics
- **Computer science** – computer systems development and JAVA programming
- **Organisation** – information systems and financial management, accounting and law

THE SOPHISTER YEARS

During the Junior Sophister (third) year new aspects of these subject areas you will take on board include integrated multimedia technologies, file structures and databases, business strategy, information systems, computer architecture and operating systems.

In the Senior Sophister (fourth) year you will concentrate on computer science specifically – studying networks and artificial intelligence, graphics and operations research – and will also undertake a major project.

ASSESSMENT STRUCTURE

Assessment is by end-of-year examination. In the final year your project will be equivalent to an extra subject.

CAREER OPPORTUNITIES

This course is a solid foundation for a career in technical, supervisory or managerial positions in all organisations that make extensive use of computer-based systems. These include manufacturing, financial services, the civil service and local government. It will also serve you well if you are interested in a teaching career at second or third level.

FURTHER INFORMATION

Email **Mary.Sharp@tcd.ie** or visit
www.cs.tcd.ie/courses/bsccs
Tel: +353 1 608 2732

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 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 30 June 2005 for entry to the academic year commencing in October 2005.

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.

COURSE CONTENT

The following subjects will be covered:

- Internet systems development
- Computer programming (C, Functional/XML, Visual Basic)
- Enterprise computing
- Mathematics for information technology
- Communications technology
- Database management systems
- Project management
- Systems analysis and design

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 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 30 June 2005 for entry to the academic year commencing in October 2005.

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 per week.

COURSE CONTENT

The following subjects will be covered:

- Information technology and law
- Computer programming (JAVA, Logic)
- Information security
- Management and organisation
- Electronic commerce and business
- Management and the IT industry
- Information security
- Managing the IT infrastructure
- Human context of information technology

Each student is also involved in extensive project work which can be selected from one of three separate areas:

- Research
- Development of a technology solution
- Management practice within information systems

Further details and application forms for the diploma and degree courses may be obtained from the Information Systems programme secretary at:
Tel: + 353 1 608 2414/608 2418.
Email **is-info@cs.tcd.ie** or visit
www.cs.tcd.ie/courses/bscis or
Admissions Office
Tel: + 353 1 608 1072/608 2003

**The Diploma in Information Systems and B.Sc. in Information Systems are two distinct components in the Programme in Information Systems (evening attendance)*

Faculty of Health Sciences

Introduction to the Faculty

The Faculty of Health Sciences provides a wide range of degree and diploma courses at undergraduate and postgraduate level for the education and training of health professionals. The courses are delivered by a number of schools and units, including the schools of Clinical Speech and Language Studies, Dental Science, Physiotherapy, Occupational Therapy, Radiation Therapy and the School in Research and Postgraduate Education and Training, The Unit of Nutrition and Dietetic Studies is linked to the Department of Clinical Medicine in the Medical School.

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 College 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 its medical school 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 students entering the Faculty of Health Sciences are required to demonstrate evidence of immunity to tuberculosis within the first year of their course. Students seeking entry to Clinical Speech and Language Studies, Dental Science, Dental Hygiene, or Medicine must produce a negative Hepatitis B s-antigen (HBsAg) test result carried out not more than six months prior to entry before being permitted to register with the College. 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.

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.
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.

Students entering Nursing/Midwifery Studies are subject to the advice and procedures that apply in the particular Health Service provider to which they have been admitted. Screening and vaccination will be organised by the Health Service Provider responsible for the practice area where the student will be on placement.

Students seeking entry to Clinical Speech and Language Studies, Dental Science, Dental Nursing, Dental Hygiene, Dental Technology, Medicine, Nursing or Midwifery must also, following registration, produce medical evidence acceptable to the Faculty of their immune status regarding Hepatitis B. Students admitted to these courses who are not already deemed to be immune to Hepatitis B will be required to undergo a course of vaccination. Details of vaccination requirements will be provided to all incoming students, and may be obtained on request from the Health Sciences Faculty Office, Chemistry Building, Trinity College, Dublin 2.

Clinical speech and language studies

COURSE CODE: TR007

PLACES 2004: 26

POINTS 2003: 510

Specific subjects required

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 Advanced level (A2)	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 Advanced level (A2)	Grade C	In one of physics, chemistry, biology, or mathematics

All offers of admission to this course are made subject to a negative HBsAg test result.

See precautions against infectious diseases.

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, eating and drinking 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 they may be situated within specialist clinics.

Communication impairments can occur at any stage in a person's life. 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 YOU?

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

Teaching methods include lectures and tutorials, as well as group work in small teams to address problems set in the problem-based learning approach. The course is intensive, with lectures, tutorials and clinics scheduled throughout each of the four years.

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. In the first year students carry out practical and clinical work in audiology and normal development, including visits to special schools and clinics. In later years you will 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.

THE FRESHMAN YEARS

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.

Theoretical component:

- **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 STRUCTURE

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 on the College campus 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.

PROFESSIONAL PRACTICE

On graduation, a 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).

Graduates of the Trinity course who wish to work in Europe outside of the Republic of Ireland will have to apply for government approval in other EU countries. Graduates who wish to work in the UK should contact the Royal College of Speech and Language Therapists (UK). **www.rcslt.org**

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/index**

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.clubi.ie/iaslt** and **www.rcslt.org**

FURTHER INFORMATION

www.tcd.ie/Clinical_Speech
Tel: + 353 1 608 1588

A video presentation, which describes aspects of the course, can be bought from the School. This includes information on clinical speech and language studies, occupational therapy and physiotherapy.

Dental science

COURSE CODE: TR052

PLACES 2004: 32

POINTS 2003: 545

Specific subjects required

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 Advanced level (A2)	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 page 111.**

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 YOU?

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. It is also desirable that you 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 of other disciplines.

WHY STUDY AT TRINITY COLLEGE?

The clinical facilities in Trinity's Dental School are of a very high standard with emphasis on the use of information technology throughout the building. 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 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 (first term only)
- 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
- The clinical signs and symptoms of systemic and oral disease
- The basic clinical skills necessary for the treatment of patients
- The principles of experimental design, data collection and analysis
- The relevant elements of the biological and medical sciences appropriate to the needs of a practising dentist
- Health and safety
- Experimental design, data collection and analysis

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 students 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

ASSESSMENT STRUCTURE

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

The Dental School at Trinity is involved in the SOCRATES exchange programme, which allows for exchange of students in the fourth year with certain European dental schools. Between the fourth and fifth dental years some student 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

http://global.dental.tcd.ie/Eduation/DentalScience
Tel: +353 1 612 7200

Certificate in Dental Nursing

COURSE CODE: TR801

PLACES 2004: 20

POINTS 2003: 310

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 and 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. All your formal academic teaching and learning experiences, together with your practical clinical experience, is gained at the Dublin Dental School & 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 dental science students for some elements of the course to promote effective teamwork throughout the dental profession.

On successful completion of your final examinations you will be awarded a Hospital Badge and a College Certificate.

COURSE CONTENT

First year modules

- Introductory module
- Infection control and immunity
- Dental and oral pathology
- Physiology & 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 of the programme will be assessed by written examinations, practical examination and clinical assessment.

Second year modules

- Practice management
- Conscious sedation
- External placement

Assessment
Written component – examinations & written assignments

Clinical component – continuous clinical assessment, Objective Structural Clinical Examinations, 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://global.dental.tcd.ie/Education/DentalNursing
email: **dentalnursetutor@dental.tcd.ie**

Diploma in Dental Hygiene

COURSE CODE: TR802

PLACES 2004: 8

POINTS 2003: 400

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.

All offers of admission to this course are made subject to a negative HBsAg test result. See page 111.

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.

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 Dental Hospital and health board units in Dublin. Emphasis is placed 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 dental science students for some elements of the course to promote effective teamwork throughout the dental profession.

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 CONTENT

The curriculum has a modular design and some modules are prerequisites for others.

First year modules

Students who have been awarded the Certificate in Dental Nursing [TCD] may be exempt from certain first year modules.

- Infection control and immunity
- Clinical dentistry 1 and 2
- 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

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

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 STRUCTURE

Assessment is based on 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. You will be awarded a Diploma in Dental Hygiene on completion of the course.

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

http://global.dental.tcd.ie/Education/DentalHygiene

Diploma in Dental Technology

COURSE CODE: TR803

PLACES 2004: 6

POINTS 2003: 345

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 dental science students for some elements of the course to promote 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 & Hospital on Trinity campus, this course includes lectures and practicals in the basic sciences, and in all aspects of laboratory techniques and technology. Some elements of the course will see you integrating with dental nurses, dental hygienists and undergraduate dental science students.

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 STRUCTURE

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.

On successful completion of the course, you will be awarded a Diploma in Dental Technology.

CAREER OPPORTUNITIES

This course qualifies you to work in a dental laboratory.

FURTHER INFORMATION

http://global.dental.tcd.ie/Education/DentalTechnology

Human nutrition and dietetics

COURSE CODE: FT223

Specific subjects required

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 FT223). 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 YOU?

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 STRUCTURE

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.nutsoc.org.uk**)

Medicine

COURSE CODE: TR051

PLACES 2004: 60

POINTS 2003: 570

Specific subjects required

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 Advanced level (A2)	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 HBsAg test result. See page 111.

COURSE OVERVIEW

The School of Medicine at Trinity College was founded in 1711. The current undergraduate curriculum is designed to ensure that students are equipped with the knowledge, skills and attitudes required for the safe and effective delivery of medical care, encompassing not only the biological but also the psychological and social aspects.

IS THIS COURSE RIGHT FOR YOU?

If you are interested in people and how they live and work together this course will suit you. It provides a wide spectrum of experiences in the areas of lifeskills, science and scientific research, promotion of health and prevention of disease and clinical practice including the diagnosis, treatment and management of disease.

This is a course which requires an extensive time commitment from students in all years.

KEY CHANGES IN THE CURRICULUM

From 2005 Trinity will offer a five-year medical programme and several changes are being introduced to the curriculum:

- Increased emphasis on the early acquisition of generic skills such as communication, critical thinking, information resourcing and analysis
- Increased emphasis on the early acquisition of clinical skills especially those special communication skills which relate to patient interaction and the wide range of technical skills required as a result of advances in molecular medicine and many new forms of therapy
- Integration of the basic and the clinical sciences throughout all years. This means that students are working with patients in the first year. It also means that contact with the non-clinical sciences is maintained through to final year
- Contextualisation of material to reflect postgraduate work practice
- Multiple modes of delivery to facilitate different learning styles and approaches
- Enhancement of the student learning process through small group, self-directed learning tutorials
- Recognition of the role of students as active learners who have easy access to international centres of excellence via World Wide Web

FIRST MEDICAL YEAR

You will begin with a four-week introductory module offering elective material to enable you to rectify specific deficiencies in relevant areas.

Following this there are two core components in the first year:

Component 1 involves detailed study of normal structure and function of the human body. This component is modular and is based on the body systems: respiratory, cardiovascular, musculo-skeletal, neurological, endocrine, digestive and urogenital. The Departments of Anatomy, Biochemistry, Physiology, Psychology and Radiology contribute to teaching of Component 1.

Component 2 is continuous rather than modular. It is based in behavioural sciences and family case study and will include aspects of human growth and development. As part of the learning experience you will be introduced to families in social rather than clinical settings and, under the guidance of the Department of Community Health and General Practice, you will have an opportunity to shadow one particular family in the home over a period of time.

Teaching methods in both components will include lectures and practicals (in the new curriculum there is an increased emphasis on practical work), small-group learning tutorials, web-based packages and private study.

SECOND MEDICAL YEAR

This year initially continues the study of normal structures and functions and then moves gradually to the study of the nature and causes of disease processes.

Topics include:

- Advanced neurosciences (including the anatomy of the head and neck)
- Clinical skills (includes patient contact and centres on history taking and attendance at geriatric and paediatric clinics)
- Molecular medicine
- Basic pharmacology
- Microbiology
- Pathology

THE CLINICAL YEARS

From the beginning of the third medical year you will attend a hospital continuously. 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.

To begin with, you will participate in ward rounds and observe surgical and other procedures but thereafter you will take rotations in clinical medicine, surgery, general practice and the various major medical specialist areas, including paediatrics, psychiatry, and obstetrics and gynaecology. These rotations include a series of lecture programmes, tutorials and seminar covering subjects that include clinical pharmacology, therapeutics, pathology and microbiology.

ASSESSMENT STRUCTURE

The assessment structure includes in-course evaluation of practical and clinical skills, case studies, research projects, formal written and oral examinations and Objective Structured Clinical Examinations. There will be a general move away from single, end-of-year examinations to a continuous assessment format which will provide you with meaningful feedback throughout the year.

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 a good way to gain experience in scientific research if you are interested in the possibility of a career in academic medicine.

TEACHING HOSPITALS

The Medical School is based on Trinity's city-centre campus, close to Dublin's social and cultural facilities and to all transport services. Its 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, each with 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.

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 practice in Great Britain and Northern Ireland, registration with the General Medical Council in the UK is necessary.

CAREER OPPORTUNITIES

Most people complete their intern year before committing to one area over another. Some then enter general practice, while others opt to continue their training as a general physician or surgeon, or in a related specialist field. You should be aware that the majority of postgraduate training programmes currently require 5 – 7 years work before specialist status is achieved.

Some students prefer to work in an area such as hospital management, or make research their priority and follow a career in academic medicine.

FOR MORE DETAILED INFORMATION ON ENTRY REQUIREMENTS AND ADMISSION PROCEDURES:

Admissions Office, Trinity College, Dublin 2
Tel: +353 1 608 1133
Email: **admissns@tcd.ie**
Website: **www.tcd.ie/Admissions/**

FOR MORE DETAILED INFORMATION ON THE MEDICAL PROGRAMME, PLEASE CONTACT:

Medical School Office, Trinity College, Dublin 2
Tel: +353 1 608 1075
Email: **health.sciences@tcd.ie** or visit
www.tcd.ie/Health_Sciences/

Nursing
General/Mental Handicap/ Psychiatric Nursing

COURSE CODES: TR091-TR098

	TR091	TR093	TR095	TR097
Places 2004:	96	30	23	26
Points 2003:	350	390	280	260

Specific subjects required

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 TR092, TR094, TR096, TR098:

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.

Details of the application and assessment process are available at www.nursingcareers.ie

Screening and vaccination will be organised by the Health Service Provider responsible for the practice area where you are going on placement.

See page 111.

COURSE OVERVIEW

The four-year honors degree programme in nursing studies at Trinity is offered in partnership with six health service providers. On successful completion of this course you will be eligible to apply to An Bord Altranais, the Irish Nursing Board, to have your name entered on the relevant division of the Register of Nurses, (i.e. general, psychiatric or mental handicap nursing).

The six linked health service providers are:

General nursing:

- The Adelaide and Meath Hospitals, incorporating the National Children's Hospital at Tallaght
- St. James's Hospital

Psychiatric nursing:

- South-Western Area Health Board (SWAHB) and East Coast Area Health Board (ECAHB), St. Brendan's Hospital
- St. Patrick's Hospital

Mental handicap nursing:

- Stewart's Hospital Services Ltd, Palmerstown
- St. Anne's, Moore Abbey

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 in 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.

The three main themes of the course are:

- Person and community centred holistic care
- Personal and interpersonal skills
- Professional nursing studies

The biological, behavioural and social sciences are incorporated within the relevant themes. Some content under each of the themes is common to all three nursing disciplines and the remainder is specific to your chosen discipline.

There are two components to the nursing degree course – a theoretical component and a clinical component. The theoretical component of the course will be taught on the Trinity campus and teaching methods include lecture, small group teaching, tutorials, and practical classes among others.

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, consisting of 36 weeks in a variety of clinical settings. These placements will take place in two six-week blocks in each of years one, two and three of the programme. During the third and fourth year, you will be on a 52-week roster of continuous placement and 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.

Placements 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 and 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, mental handicap)
- **Operating theatre**
- **Maternity care**

Psychiatric nursing

- **Psychiatric nursing** (including in-patient and community care settings)
- **Specialist care**
- **Care of the older person**
- **Adult general nursing**

Mental handicap 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 mental handicap)
- **Acute nursing** (specialising in the care of persons with acute nursing needs, including those with mental handicap who have physical handicap/illness)
- **Specialist areas** (e.g. physiotherapy, communication, speech and language, and physical education)
- **Management**

THE FRESHMAN YEARS

The Freshman (first and second) years of the course concentrate on nursing, biological, behavioural and social sciences and include units of learning on the following topics:

Person and community centred holistic care

Junior Freshman (first) year

- Biological sciences for nursing
- Psychology for nursing
- Sociology for nursing
- Health and health promotion
- The art and science of nursing
- Safety for nursing practice

Senior Freshman (second) year

- Biological sciences for nursing
- Psychology for nursing
- Sociology for nursing
- Health and health promotion

Personal and interpersonal skills

Junior Freshman (first) year

- Personal development
- Personal learning skills
- Philosophical and theoretical foundations of caring
- Communication for nursing practice
- Reflective learning for nursing

Senior Freshman (second) year

- Personal development
- Personal learning skills

Professional nursing studies

Junior Freshman (first) year

- Nursing and the law
- Ethics and philosophy for nursing
- Research for nursing practice
- The profession of nursing

Senior Freshman (second) year

- Nursing and the law
- Ethics and philosophy for nursing
- Research for nursing practice
- Concepts and issues for professional nursing practice

Additional topics relating specifically to your chosen nursing discipline are also covered in each of these first two years. When not on clinical placement you can expect to spend approximately 20 hours each week in guided study and around 10 hours in individual study.

There are two six-week clinical placements in each of years one, two and three starting after the Christmas vacation in the first year.

THE SOPHISTER YEARS

In the Junior and Senior Sophister years (three and four) you will develop and enhance your knowledge, skills and attitudes for professional nursing practice. During third and fourth year, you will be on a 52-week roster of continuous placement and will be a paid health service employee.

ASSESSMENT STRUCTURE

Assessment will include 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.

CAREER OPPORTUNITIES

As a graduate you will also be eligible to apply to have your name entered in the relevant division 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
Tel: +353 1 608 2692

Senior Freshman (2nd year) class preparing splints

Occupational therapy

COURSE CODE: **TR054**

PLACES 2004: **40**

POINTS 2003: **490**

Specific subjects required:

Leaving Certificate	HC3	In one of physics, chemistry, biology, physics/chemistry or agricultural science
GCE Advanced level (A2)	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.

WHAT DOES AN OCCUPATIONAL THERAPIST DO?

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 different 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.

THE SCHOOL OF OCCUPATIONAL THERAPY AT TRINITY

The School is based in the Trinity Centre for Health Sciences in a new purpose-built complex at St. James's Hospital. This complex houses other Schools of the Faculty 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 and 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 STRUCTURE

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 and psychiatric rehabilitation, hand therapy, health services management, learning disability, disability studies, and community occupational therapy.

FURTHER INFORMATION

www.tcd.ie/Occupational_Therapy
Tel: +353 1 608 3210

Or see **www.wfot.org.au**

"Studying Occupational Therapy at Trinity has been a brilliant grounding for me in my professional life. It proved to be a springboard into a world of possibilities and excitement, and has led me to discover and learn many things about myself and about the children with whom I work. The course's coverage from the 'hard' sciences to the 'soft' arts has challenged me and my world view at every turn."

Stephen Oakes – graduated 1995

Physiotherapy

COURSE CODE: TR053

PLACES 2004: 40

POINTS 2003: 535

Specific subjects required

Leaving Certificate	OC3 or HD3 HC3	Mathematics In two of physics, chemistry, biology, physics/chemistry, mathematics or agricultural science
GCSE	Grade B	Mathematics
GCE Advanced level (A2)	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 manipulative procedures, exercise and a variety of electrical treatments.

Physiotherapists may be part of a multidisciplinary medical team that includes physicians, nurses, speech and language 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.

THE SCHOOL OF PHYSIOTHERAPY AT TRINITY

The School is based in the Trinity Centre for Health Sciences in a new purpose built complex at St. James's Hospital. This complex houses other Schools of the Faculty 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 equally divided between lecture and practical classes.

Junior Freshman (first year) courses:

- Physiology
- Anatomy
- Physics
- Chemistry
- Pathology

In the Senior Freshman (second) year you will be introduced to professional skills in the following areas:

- **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 orthopaedic 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, and respiratory/ cardiovascular soft tissue injury and measurement in physiotherapy.

ASSESSMENT STRUCTURE

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 be practically examined 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 manipulation, sports injuries, mental handicap, research, education, management or private practice.

FURTHER INFORMATION

www.tcd.ie/Physiotherapy
Tel: + 353 1 608 2110

Radiation therapy

COURSE CODE: TR055

PLACES 2004: 25

POINTS 2003: 490

Specific subjects required

Leaving Certificate	HC3	In one of physics, chemistry, biology or physics/chemistry
GCE Advanced level (A2)	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. Initially, your degree will cover a lot of science subjects so you will have to have a keen interest in biology, physics and chemistry. Thereafter, 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 skills.

A short 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 clinical placement.

The subjects you will cover are:

- Biology
- Physics
- Chemistry
- Psychology
- Professional studies

You will spend 2 months in a clinical setting

THE SENIOR FRESHMAN YEAR

In the Senior Freshman (second) year courses include:

- Biochemistry
- Physiology
- Anatomy
- Medical and radiation physics
- Communication and counselling skills

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

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, the Mater Private Hospital, Dublin, St. Vincent's Private Hospital, Dublin, and the Cork University Hospital. Clinical placement is 4 months in Junior Sophister (third) year and 5 months in Senior Sophister (fourth) year.

ASSESSMENT STRUCTURE

Written end-of-year examinations take place in most subjects but the course is moving towards a higher percentage of 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.

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: tel. 01 608 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

www.tcd.ie/Therapeutic_Radiography
Tel: +353 1 608 3234

Bachelor in Midwifery Studies

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 June 2005 for entry to the academic year commencing in October 2005.

Application forms available from:
Admissions Office, West Theatre, Trinity College, Dublin 2
Tel: (01) 608 2003/3664,
Email: **admissns@tcd.ie**

The Government's Free Fees Initiative DOES NOT cover this course. Students registered for the Bachelor in Midwifery Studies will be required to pay tuition fees.

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, and challenge their thinking and assumptions about their profession.

WHO IS ELIGIBLE TO APPLY?

If you qualify for the Diploma in Midwifery (or equivalent) or if you already hold registration as a midwife with An Bord Altranais, the Irish nursing board, and a Diploma in Midwifery (or equivalent) you 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 into a one-year part-time access to degree programme which, on successful completion, will allow access to the beginning of the degree year.

Bachelor in Nursing Studies

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 June 2005 for entry to the academic year commencing in October 2005.

Application forms available from:
Admissions Office, West Theatre, Trinity College, Dublin 2
Tel: (01) 608 2003/3664, Email: **admissns@tcd.ie**

The Government's Free Fees Initiative DOES NOT cover this course. Students registered for the Bachelor in Nursing Studies will be required to pay tuition fees.

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 breath 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 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, the Irish nursing board, 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

This course takes place over one academic year on a part-time basis. One programme is offered each year beginning in October and ending in June. You will be required to attend the University for one study week at the beginning of the course, one day a week throughout the academic year and one study week at the end of the course. 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 is comprised of five modules. Two modules have a specific midwifery focus and three modules are shared with the Bachelor in Nursing Studies students. The modules are: governance in midwifery practice; expectant approach to midwifery practice; developments in nursing and midwifery practice; teaching and assessing in clinical practice; and research methods.

COURSE ASSESSMENT

The assessment methods utilised in the course are designed in a manner that requires both an analytical approach to reading and reference to the student's own practice. Assessments used include essays, projects and group work. A research proposal forms part of the research methods module. Students undertaking the BMS must complete each assessment within the context of the profession of midwifery and midwifery practice.

COURSE CONTENT

The Bachelor in Nursing Studies is a part-time modular programme. Two programmes are offered each year. One begins in February and ends in September and the other begins in October and ends in June. Lectures are provided one day per week and there are two study weeks each 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:

- Nursing management
- Developments in nursing practice
- Teaching & assessing in clinical practice
- Communication
- Research methods

COURSE ASSESSMENT

All modules are assessed. Four modules will be assessed by continuous assessment (assignments) and one module by written examination.

FURTHER INFORMATION

www.tcd.ie/Nursing_Midwifery
Tel: +353 1 608 2692

Faculty of Science

Introduction to the Faculty

The Faculty of Science comprises three schools:

- The School of Mathematics
- The School of Natural Sciences
- The School of Pharmacy

Within each school there may be several departments offering teaching in a range of disciplines.

Undergraduate programmes

Mathematics

- Moderatorships (B.A.) in Mathematics, and in Theoretical Physics

Natural Sciences

- Moderatorships (B.A.) in Science, in Human Genetics, in Computational Chemistry, in Computational Physics, in Medicinal Chemistry, and in Physics and Chemistry of Advanced Materials

Pharmacy

- Bachelor in Science (Pharmacy) (B.Sc. (Pharm.)

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 to facilitate this. Some departments will also actively encourage you to spend your summer months working abroad in a research laboratory.

FURTHER INFORMATION

www.tcd.ie/Science
Tel: + 353 1 608 1970

Science (common faculty entry)

COURSE CODE: TR071

PLACES 2004: 290

POINTS 2003: 425

Specific subjects required

Leaving Certificate	OC3 or HD3 HC3	Mathematics In two of: physics, chemistry, biology, mathematics, physics/chemistry, geology, geography, applied mathematics or agricultural science
GCSE	Grade B	Mathematics
GCE Advanced level (A2)	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 thirteen specialist areas for your final two years.

IS THIS THE RIGHT COURSE FOR YOU?

Science at Trinity 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 CONTENT

The structure of the science programme leaves plenty of room for flexibility. 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.

Science students normally attend 28 to 32 hours per week of lectures, laboratory practical classes, tutorials and seminars.

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 + two of Biology, Chemistry, Geography/Geology or Physics **Or** Mathematical methods + three of Biology, Chemistry, Geography/Geology or Physics	**Select three subjects from:** Biology I Biology II or Mathematics Chemistry Geography or Physics Geology	**Select one of:**
Biology Broad-based training in the fundamentals of modern biology. Topics include: ■ Introduction to molecular and cellular biology ■ Ecology ■ Genetics ■ Developmental biology ■ The biology of lower organisms ■ Plant and animal biology	**Biology I** (Cellular and molecular biology) ■ Fundamentals of biochemistry ■ Introductory microbiology and immunology ■ Microbial and molecular genetics ■ Neurobiology **Biology II** or **Mathematics** (Organisms and environment) ■ Evolution ■ Behaviour ■ Ecology ■ Vertebrate form and function ■ Plants and people	Biochemistry *page 138* Biochemistry with immunology *page 139* Botany *page 139* Chemistry *page 140* Environmental Sciences *page 141* Genetics *page 142*
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 *page 142* Geology *page 144* Microbiology *page 145* Neuroscience *page 146* Physics *page 147* Physiology *page 148* Zoology *page 148*

"You probably couldn't pick a better place to study Natural Science than Trinity. The flexibility it offers in terms of a broad education is fantastic and means you've loads of scope when it comes to making a career choice.

What I particularly liked about it was that I wasn't pushed down a road I wasn't suited to – for example, I found out fairly quickly that I didn't have the mindset to be a chemist or physicist long-term but geography and geology I could really relate to. I'll possibly have to specialise further going forward but for the moment I'm happy with the way things are going."

Thomas Ball, Hydrogeologist Consultant – graduated 2002

Junior Freshman (first year)	Senior Freshman (second year)
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 ■ Meteorite impact and biological extinctions ■ Earthquake prediction ■ The origin of life ■ Climate change in the geological past	**Geography (or Physics)** Topics include: ■ Cultural geography ■ Economic geography ■ Historical geography ■ Natural and human-modified environmental processes and systems ■ Practicals: 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 (or Geography)** Second year develops topics from the first year: ■ Rotations, space and time ■ Oscillations ■ Physical optics ■ Thermodynamics ■ Quantum physics ■ Nuclear physics ■ Observing the universe ■ Current electricity

MATHS IN THE JUNIOR FRESHMAN YEARS

Mathematics

This course teaches mathematics as a full subject and provides a basic mathematical training suitable for all branches of science.

Junior Freshman (first year) topics include:

- Calculus
- Partial derivatives
- Linear algebra
- Differential equations
- Computing
- Probability and statistics

The second year course is a continuation of the first year and you will undertake more advanced study of each of the subjects above.

Mathematical Methods

This is a short foundation course in mathematics and computing for first year students not taking mathematics as a full subject. By comparison with the mathematics course this is a less detailed course that will introduce you to the principles and rules governing scientific investigation.

Topics include:

- Introduction to computing
- Functions
- Graphs
- Maxima and minima
- Integration
- Matrices
- Linear equations

Biochemistry

Students who wish to study biochemistry apply to the science degree (TR071) and may select biochemistry as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

WHAT IS BIOCHEMISTRY?

Biochemistry is the study of the chemical basis of life. It is 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 – from the behaviour of simple organisms to the complex development and organisation of the human.

Topics include:

- **Bioenergetics**
- **Membrane function**
- **Cellular regulation**
- **Hormones**
- **Immunology**
- **Clinical biochemistry**
- **Neurochemistry and the behaviour of enzymes**
- **DNA structure**

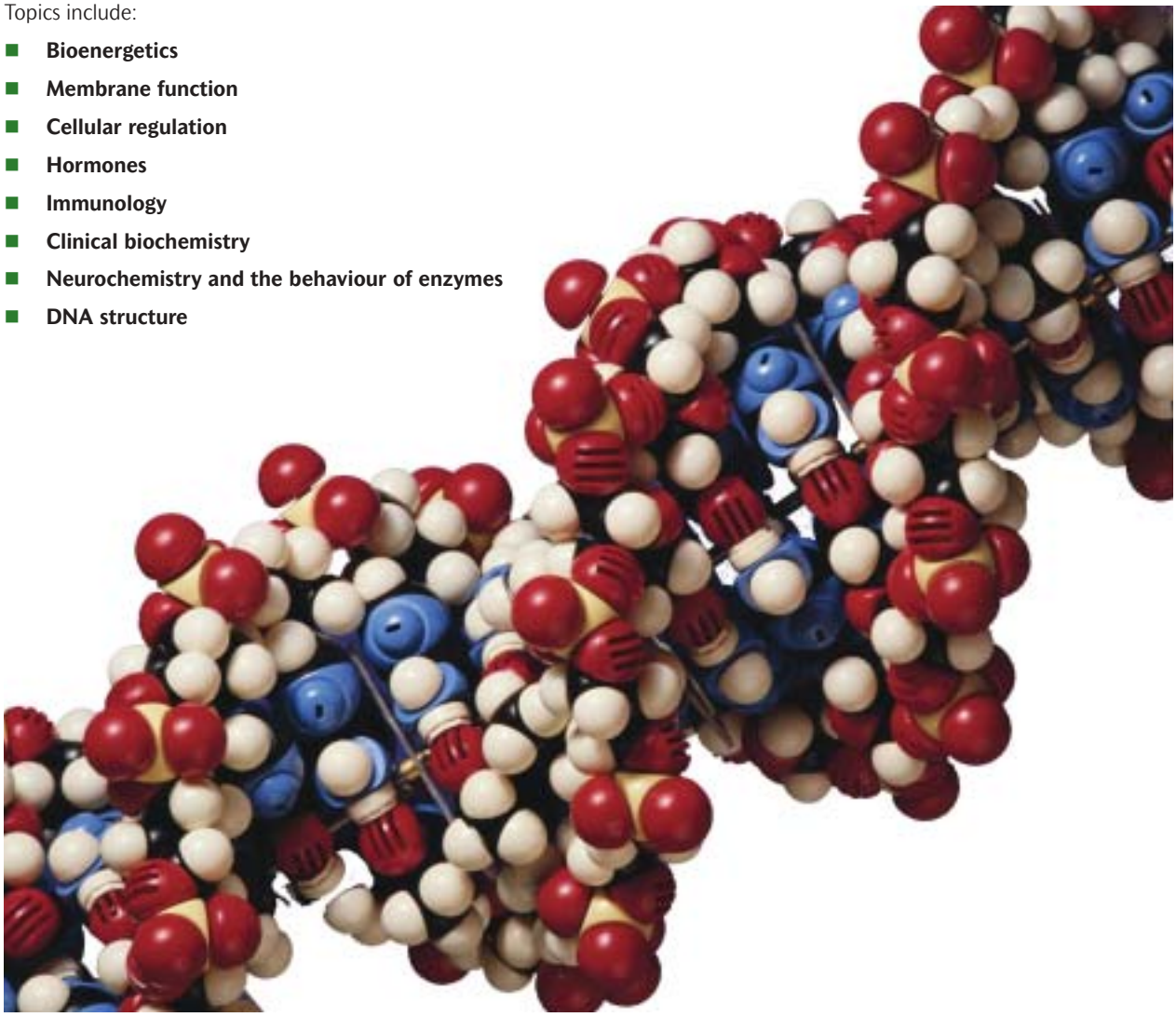
A research project forms an essential part of the Senior Sophister (fourth) year. Examples of topics to choose from include the molecular biology of bacterial toxins, the behaviour of anti-depressant and tranquilliser drugs, cell fertilisation, infertility and development, mechanisms of catalysis, control of cell death, cancer, and the functions of the immune system.

CAREER OPPORTUNITIES

This course equips you to work in all major aspects of biochemistry, cellular and molecular biology. You may decide to continue your studies and subsequently take up a career in industrial 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 even crossed over into areas such as accountancy and law.

FURTHER INFORMATION

www.tcd.ie/Biochemistry
Tel: +353 1 608 1098



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 after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

WHAT IS BIOCHEMISTRY WITH IMMUNOLOGY?

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 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. Postgraduate research or work in hospital and commercial laboratories will be the primary focus of opportunities for you. However, the breadth of the course will also allow you to pursue a career in areas as diverse as teaching, information systems, or communications and management.

FURTHER INFORMATION:

www.tcd.ie/Biochemistry
Tel: + 353 1 608 1608

Botany

Students who wish to study botany apply to the science degree (TR071) and may select botany as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

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?

The Botany Department 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**
- **Tropical ecology**
- **Plant molecular biology**
- **Food crops & food resource problems**

The laboratories and greenhouses on 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.

Junior Sophister botany students measuring light levels outside and within the plant EUPHORBIA CANARIENSIS on the 2004 field trip to Gran Canaria.

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

www.tcd.ie/Botany
Tel: + 353 1 608 1274

Chemistry

Students who wish to study chemistry apply to the science degree (TR071) and may select chemistry as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

Chemistry is also an important part of the following courses:

- TR074: Computational chemistry/computational physics – page 149.
- TR075: Medicinal chemistry – page 153.
- TR076: Physics and chemistry of advanced materials – page 157.

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?

As a Junior Sophister (third year student), 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 departments.

Lectures are complemented by laboratory classes. In these classes 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 within the Department or in an advanced

industrial or academic laboratory abroad. Several recent examples have included research projects conducted throughout Europe (Vienna, Berlin, Madrid, Toulouse, Utrecht) and North America (McGill, Duke) ranging 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

www.tcd.ie/Chemistry
Tel: + 353 1 608 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 after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

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.

WHAT WILL YOU STUDY?

Courses consist of lectures, seminars, practical laboratory and fieldwork in areas such as:

- **Environmental management**
- **Planning**
- **Water technology**
- **Air pollution**
- **Environmental chemistry**

Joint modules from other departments 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, either on a topic from a prepared list or on an area of your own choice. In the past students have undertaken projects on air pollution, waste management, restoration ecology, water quality, habitat management and green house 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 and industry.

FURTHER INFORMATION

www.tcd.ie/Centre_for_the_Environment
Tel: + 353 1 608 1638

Genetics

Students who wish to study genetics apply to the science degree (TR071) and may select genetics as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

Genetics within science examines plant, human and other animal genes while human genetics (TR073) focuses exclusively on the genes of humans.

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 growth in an organism.
- **Population genetics:** deals with genetic variation in population and the role of this variation in evolution.
- **Quantitative genetics:** the study of characteristics that vary continuously across populations, such as height or weight, which are affected by many genes.

Other areas you will study include bioinformatics, evolutionary genetics and medical genetics, where molecular and analytical approaches are used to understand the basis of genetically determined 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 being investigated in the department 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 study for higher degrees and careers in research. Opportunities also exist in biotechnology and pharmaceutical companies, agricultural organisations, medical 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 straight into a career where you can apply your analytical and computing skills, such as accounting or banking.

FURTHER INFORMATION

www.tcd.ie/Genetics
Tel: + 353 1 608 1140

Geography

Students who wish to study geography apply to the science degree (TR071) and may select geography as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

Alternatively, geography may be combined with one other subject from an arts or social science discipline within the two-subject moderatorship (TSM) programme. See page 20 for entry requirements and page 21 for permitted combinations.

All courses in the first two years of the Science and TSM geography teaching programmes are compulsory. A range of optional courses is available in the Sophister (third and fourth) years.

WHAT IS GEOGRAPHY?

Geography deals with the distribution of physical and human features over the Earth's surface, with the relationships between people and their environments, 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 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 137) aims to give a flavour of the breadth of geography.

Senior Freshman (second year) 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 (second year) 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 (second year) 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 cognate departments in Trinity, such as botany, economics, geology and sociology. The optional courses in geography include:

- Caribbean environments and development
- Climate change
- Coastal processes and management
- Coastal and estuarine dynamics
- Cold climate geomorphology
- Comparative historical geography
- Contested environments
- Digital multimedia in geography
- Environmental change
- Environmental planning
- Exploitation of natural resources
- Geographical perspectives on urban environments
- Geographical information systems (GIS)
- Karst geomorphology
- North America
- Surveying
- 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 2004, Sophister year geography students were involved in academic staff led fieldwork in Mallorca, 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.

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

www.tcd.ie/Geography
Tel: + 353 1 608 1576

Geology

Students who wish to study geology apply to the science degree (TR071) and may select geology as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

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?

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 two compulsory courses:

- **Review of the geology of Ireland**
- **Analysis of catastrophic events in the Earth's history**

You will also select about eight or ten optional subjects from a range of approximately twenty covering all the main fields of geology.

Subjects include:

- Palaeontology
- Petroleum geology
- Hydrogeology and engineering geology
- Metamorphic and igneous rocks
- The early Solar System
- Earth history

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 profession.

FURTHER INFORMATION

www.tcd.ie/Geology
Tel: + 353 1 608 1074

Microbiology

Students who wish to study microbiology apply to the science degree (TR071) and may select microbiology as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

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 & environmental microbiology**
- **Microbial proteomics**
- **Molecular protozoology**
- **Molecular biology of yeasts**
- **Medical & clinical microbiology**
- **Antimicrobial & antibiotic agents**

Microbiology is closely related to microbial genetics and biochemistry. Students 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 department-based research group.

CAREER OPPORTUNITIES

Graduates in microbiology find employment in pharmaceutical and medical research laboratories, as quality control officer 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

www.tcd.ie/Microbiology
Tel: + 353 1 608 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.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

WHAT IS NEUROSCIENCE?

Neuroscience encompasses the study of the nervous system of animals and humans. It probes the intricate machinery of the nervous system in an attempt to understand how we think, move, perceive, learn and remember. Today, it plays a fundamental role in medicine because of the debilitating and costly effects of neurological and psychiatric disease.

WHAT WILL YOU STUDY?

Neuroscience links neurobiology with cognitive science and, as a result, courses are provided by several departments within the Faculties of Science, Health Sciences and Arts (Humanities). It 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 courses include the development of the nervous system, its response to injury and disease, and the relationship of the brain to behaviour. You will also be trained in scientific methodology and experimental design, data handling and resource skills.

Junior Sophister (third) year courses include:

- Cell physiology
- Neurophysiology
- Sensory physiology
- Neuroanatomy
- Neurochemistry
- Signal transduction
- Fundamentals of neuroscience and behaviour
- Behavioural neuroscience
- Gene structure and expression
- Immunology
- Developmental biology
- Physiological pharmacology
- Data handling, experimental design and statistics
- Basic techniques
- Seminars in neuroscience
- Applied molecular biology
- Journal club

Senior Sophister (fourth) year courses include:

- Cellular neurophysiology
- Neurochemistry
- Molecular neurobiology
- Neurodegenerative diseases
- Neuroimmunology
- Neuropharmacology
- Techniques in neuroscience
- Functional imaging of cognitive processes
- Genetics of neural development
- Behavioural genetics

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.trinityneuroscience.com**). The research project will be preceded by a literature review, and will lead to a dissertation and seminar presentation.

Research projects are currently available in the following research areas: Neurobiology of Alzheimer's disease, Neuropharmacology of epilepsy, Neurotoxicity of MDMA ("Ecstasy") and cannabis, Neurobiology of memory and learning, Neurobiology of Parkinson's disease, Molecular biology of spinal cord regeneration, Neurobiology of depression.

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 go on to take professional degrees in medicine or allied health related sciences.

FURTHER INFORMATION

www.tcd.ie/Science
Tel: + 353 1 608 1970

Physics

Students who wish to study physics apply to the science degree (TR071) and may select physics as their specialist subject after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

Physics is also an important part of the following courses:

- TR074: Computational chemistry/computational physics – page 149.
- TR035: Theoretical physics – page 158.
- TR076: Physics and chemistry of advanced materials – page 157.

WHY STUDY 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.

The Physics Department 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.

WHAT WILL YOU STUDY?

Studies in physics cover experimental and theoretical training in core subjects, including:

- **Lasers and modern optics**
- **Quantum mechanics**
- **Electromagnetic theory**

You will also take specialist courses in areas such as nanoscience, astrophysics, nuclear and elementary particle physics, superconductivity and computer modelling.

ASTROPHYSICS

Astrophysics is an option within the physics degree course open to you at the end of the Senior Freshman (second) year.

If you take this option you will take specialist courses in astronomy and astrophysics in place of some physics courses in the final two years. You may have the opportunity to carry out your final year project at a major international observatory.

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

www.tcd.ie/Physics
Tel: + 353 1 608 1675

Physiology

Students who wish to study physiology apply to the science degree (TR071) and may select physiology as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

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 why it goes wrong, 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?

Physiology at Trinity focuses on human physiology and how this is affected by disease, although understanding this will also involve you studying comparisons in mammalian species other than man. There is a particular emphasis on themes which reflect major research interests in the department, 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 within the department or in one of our associated hospital departments and will include a literature survey and production of a written dissertation. Some typical recent research projects have looked at cannabis neurotoxicity, gastric motility in patients with pancreatitis, respiratory function in lung disease, synaptic 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 work in a health-related field such as medicine, physiotherapy, pharmacy or fitness counselling.

FURTHER INFORMATION

www.tcd.ie/Physiology
Tel: +353 1 608 1970

Zoology

Students who wish to study zoology apply to the science degree (TR071) and may select zoology as their specialist area after the second year.

For details of the first two years of the science course, including entry requirements, see pages 135-137.

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?

Our teaching programme 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 of our 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

www.tcd.ie/Zoology
Tel: + 353 1 608 1366

"Ireland's Last Great Auk". Zoological Museum TCD.
Caught off Ballymacaw, Co. Waterford, 1834. Extinct in 1844, largely due to predation by man.

Computational chemistry/ Computational physics

COURSE CODE: TR074

PLACES 2004: 15

POINTS 2003: 410

Specific subjects required

Leaving Certificate	HC3	Mathematics
	HC3	In one of physics, chemistry or physics/chemistry
GCE Advanced level (A2)	Grade C	Mathematics
	Grade C	In one of physics or or chemistry

WHAT ARE COMPUTATIONAL CHEMISTRY AND COMPUTATIONAL PHYSICS?

Computer modelling is an essential tool for solving complex problems in physical science. Examples of such problems range from protein structure determination, to modelling how molecules undergo chemical reactions, to the nature of the early universe and to understanding how flows of magma inside the earth arise and produce the Earth's magnetic field. The computational chemistry and computational physics degree programmes are designed to train you in scientific computing as well as teach you the experimental and theoretical skills that you acquire in a conventional chemistry or physics degree course. Scientific computing involves: applications such as bioinformatics (using computer databases for biological research, for example), computational astrophysics and modelling financial markets; it also involves learning to write programmes in computer languages such as C and Fortran; using Unix and Windows operating systems and learning numerical methods for solving equations.

IS THIS THE RIGHT COURSE FOR YOU?

The programme will suit you well if you want to obtain a chemistry or physics degree but are also interested in learning to use computers to solve science problems. You need an aptitude for mathematics and an interest in computing, as you will learn to use a variety of numerical methods to solve mathematical equations.

COURSE OVERVIEW

Course TR074 offers two degree subject options – Computational Chemistry or Computational Physics.

The first two years are common for all students in TR074.

You will study foundation courses in chemistry, physics and mathematics and you will begin to learn to write computer programmes and use them to solve problems in laboratory classes. You will also attend specialist tutorials in scientific computing which will introduce you to a range of relevant topics. At the end of the second year you will choose to specialise either in computational chemistry or in computational physics for the remaining two years of the course.

THE FRESHMAN YEARS

In the first two years you will take the same courses in chemistry, physics and mathematics as students in the natural sciences course – TR071 (see pages 136-137). However, laboratory class time is spent in computer laboratories as well as in experimental chemistry and physics laboratories and you will have a specialist one-hour tutorial per week devoted to scientific computation. Scientific computing tutorial classes cover subjects such as: chaos in the pendulum, atomistic simulation and how to translate a mathematical equation into a computer language.

In the Junior Freshman (first) year 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 or physics depending on which degree option you have selected.

Computational chemistry

Chemistry core courses include:
quantum chemistry, statistical thermodynamics, photochemistry.

Computational courses include:
numerical methods, particle dynamics and computational drug design.

Computational physics

Physics core courses include:
atomic physics, nuclear physics, particle physics, electromagnetism.

Computational courses include:
numerical methods, partial differential equations, programming parallel computers.

In the Junior Sophister (third) year, about half of your laboratory class time is spent in computer laboratories.

As a Senior Sophister (fourth year student) you will undertake a computational project. Examples of recently completed projects include:

- **In chemistry:**
  Modelling chemical reactivity of catalysts, atom dynamics in polymers, bioinformatics
- **In physics:**
  Computer simulations of aging, traffic simulations, fluid flow in pipes and quantum simulations of matter

ASSESSMENT STRUCTURE

You will be assessed by a combination of in-course assessment and end-of-year examinations.

CAREER OPPORTUNITIES

This degree allows you to develop a combination of computing and traditional scientific skills, a combination that is highly sought after by employers in the high technology manufacturing sector among others. The course is also a good preparation for research involving scientific computing. Other examples of careers that require scientific computing skills include weather forecasting and meteorology, financial modelling, environmental modelling and bioinformatics.

FURTHER INFORMATION

Computational Chemistry
www.tcd.ie/Chemistry/Computational
Tel: + 353 1 608 1357

Computational Physics
www.tcd.ie/Physics/Computational
Tel: + 353 1 608 1675

Human genetics

COURSE CODE: TR073

PLACES 2004: 10

POINTS 2003: 515

Specific subjects required

Leaving Certificate	OC3 or HD3 HC3	Mathematics In two of physics, biology, chemistry, physics/chemistry, mathematics and applied mathematics
GCSE	Grade B	Mathematics
GCE Adavanced level (A2)	Grade C	In two of physics, biology, chemistry, mathematics and applied mathematics

Combinations not permitted:

(a) Physics/chemistry with physics or chemistry
(b) Applied mathematics with mathematics

Human genetics (TR073) focuses on the genes of humans while the genetics option in science (TR071), 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 the same biology, chemistry and mathematics courses as science students (pages 136-137). In addition you will have a weekly tutorial with members of staff within the Genetics Department.

THE SOPHISTER YEARS

The Freshman years will have prepared you for 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 STRUCTURE

You will be assessed by a combination of in-course 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

www.tcd.ie/Genetics
Tel: + 353 1 608 1140

Mathematics

COURSE CODES:	TR031	TR001
PLACES 2004:	30	10
POINTS 2003:	365	450

Specific subjects required

Leaving Certificate	HB3	Mathematics
GCE Advanced level (A2)	Grade B	Mathematics

Mathematics may be taken as a single honor course, or, alternatively, may be combined with one other subject from an arts or social science discipline within the two-subject moderatorship (TSM) programme.

See page 21 for permitted combinations.

OVERVIEW

Mathematics can be studied either in combination with one other subject as part of a two-subject moderatorship (TSM) programme or as a single honor degree. When studied in combination typically both subjects are studied for three years and one subject only is studied in the fourth year, however when mathematics is combined with one of economics, geography or philosophy both subjects may be studied for each of the four years.

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.

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

Typically Junior Freshmen (first year students) will have approximately 18 hours of classes comprising lectures, seminars, tutorials and 2 computer laboratory classes.

Junior Freshman (first year) courses include the following:

Introduction to modern algebra: groups, rings, fields

Analysis: real and complex numbers, differentiation, functions, graphs and continuity

Mathematical methods: applied linear algebra and calculus

Classical mechanics: applied mathematics dealing with motion

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, analysis and mathematical methods. In addition you will select three 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 STRUCTURE

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.

Medicinal chemistry

COURSE CODE: TR075

PLACES 2004: 25

POINTS 2003: 440

Specific subjects required

Leaving Certificate	OC3 or HD3 HC3	Mathematics In two of physics, chemistry, biology, physics/chemistry, mathematics, applied mathematics, geography, geology or agricultural science
GCSE	Grade B	Mathematics
GCE Advanced level (A2)	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.

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.

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 1 608 1949

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 136-137). 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 science programme.

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 cardiovascular systems, advanced drug delivery systems, and the central nervous system, 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 the Chemistry Department of Trinity College, under the supervision of a member of staff or, alternatively, in a chemistry department at an overseas university, or in the laboratories of an industrial concern. To date, arrangements have been made for students to carry out their final year projects in Regensburg, Madrid, Liverpool, Strathclyde and Purdue (US) universities.

ASSESSMENT STRUCTURE

You will be assessed by a combination of in-course 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

www.tcd.ie/Chemistry/MedChem
Tel: + 353 1 608 3731

Pharmacy

COURSE CODE: TR072

PLACES 2004: 70

POINTS 2003: 540

Specific subjects required

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 Advanced level (A2)	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 with us more enjoyable for you.

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 two types of study:

Supervised study: this is in the form of lectures, practical laboratory classes, tutorials, workshops and seminars

Guided study: this is directed but unsupervised study undertaken outside formal hours.

In the Junior Freshman (first) year students can expect to spend approximately 20 hours in lecture and tutorial classes and an additional 12 – 15 hours in laboratory classes each week.

Junior Freshman	Senior Freshman	Junior Sophister	Senior Sophister
Pharmaceutical chemistry	Pharmaceutical chemistry	Pharmaceutical chemistry	Pharmaceutical chemistry
Pharmaceutics & pharmaceutical technology	Pharmaceutics & pharmaceutical technology	Pharmaceutics & pharmaceutical technology	Pharmaceutics & pharmaceutical technology
Practice of pharmacy	Practice of pharmacy	Practice of pharmacy	Practice of pharmacy
Chemistry	Pharmacognosy	Pharmacognosy	Pharmacognosy
Physics	Pharmacology	Pharmacology	Pharmacology
Biology	Biochemistry		Research Project
Physiology	Microbiology		
Maths/statistics			

There are three core courses that are studied in each of the four years of the course:

- **Pharmaceutical chemistry:** deals with all aspects of the sources, identification, analysis and stability of the materials used in medicines. Additional topics include drug discovery and design, molecular mode of action of drugs and the chemistry of drug metabolism.
- **Pharmaceutics & pharmaceutical technology:** this subject is concerned with the formulation, production and evaluation of all types of medicines such as tablets, creams and injections.
- **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.

Foundation courses in the Junior and Senior Freshman years are: chemistry, biology, physics, mathematics, statistics, physiology, biochemistry and microbiology.

- **Chemistry:** a foundation chemistry course in organic, physical and inorganic chemistry together with associated practical work. Some of the chemistry lectures are taken with students of health sciences and natural sciences disciplines while others are dedicated pharmacy lecture courses.
- **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.
- **Physics:** deals with the physical properties of matter, optics, electricity and magnetism and is designed to provide a basic foundation for aspects of physical pharmacy and pharmaceutical analysis in the later years.
- **Mathematical methods:** teaches both mathematics and statistics to assist you with the application of both in pharmaceutical calculations and statistics.
- **Physiology:** deals with the biology of the human body and is an essential prerequisite to the study of pharmacology. It covers 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.

From the Senior Freshman (second) year you will also study:

- **Pharmacognosy:** 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 to effectively treat disease in humans and in animals. The course also gives an appreciation of factors affecting the therapeutic benefits and adverse risks of medicines.

THE SENIOR SOPHISTER PROJECT

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 estrogen 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 STRUCTURE

Courses are assessed by a combination of continuous assessment, and oral and written end-of-year examinations. 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 all areas – 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

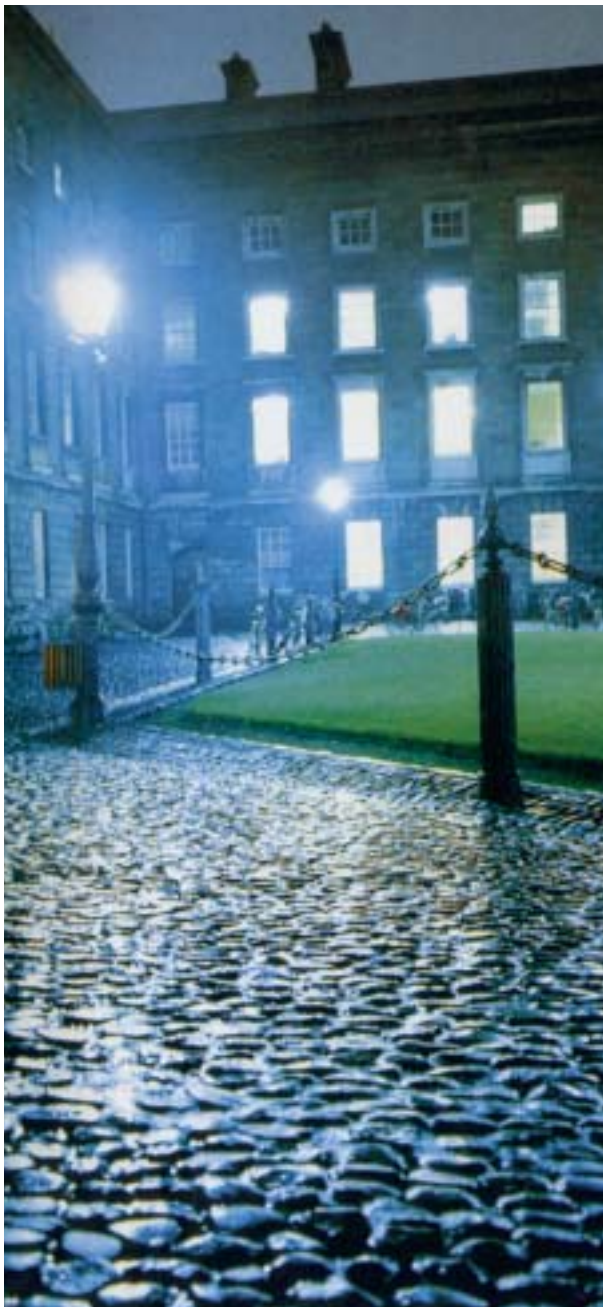
www.tcd.ie/Pharmacy
Tel: + 353 1 608 2809

THE PHARMACY DEGREE AND PROFESSIONAL QUALIFICATION

The pharmacy degree alone does not entitle you to practice 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.



Physics and chemistry of advanced materials

COURSE CODE: TR076

PLACES 2004: 20

POINTS 2003: 335

Specific subjects required

Leaving Certificate	OC3 or HD3 HC3	Mathematics In two of physics, chemistry, biology, physics/chemistry, mathematics, applied mathematics or agricultural science
GCSE	Grade B	Mathematics
GCE Advanced level (A2)	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.

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 136-137). There will be special tutorials on history 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 in the Junior Sophister year will introduce you to a wide range of techniques for 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 the highly innovative cutting edge research areas such as nano-technology, smart and biomimetic materials.

ASSESSMENT STRUCTURE

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 USA, Australia, France and Germany. That allows our students to develop their practical skills in materials science and also 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

www.tcd.ie/Advanced_Materials
Tel: + 353 1 608 1987

Theoretical physics

COURSE CODE: TR035

PLACES 2004: 35

POINTS 2003: 440

Specific subjects required

Leaving Certificate	HB3	In mathematics and physics
GCE Advanced level (A2)	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.

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 2/3 maths and 1/3 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 (1st & 2nd years)	Junior Sophister (3rd year)	Senior Sophister (4th year)
	2/3 maths 1/3 physics	*1/2 maths 1/2 physics*	*1/2 maths 1/2 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 in the School of Mathematics 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.	You will take courses in electromagnetic theory, optical materials, non-linear optics, magnetic resonance, high energy physics, metal physics and superconductivity, condensed matter theory, and econophysics. In addition you will either complete a computational project or undertake further experimental work.

ASSESSMENT STRUCTURE

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**
Tel: +353 1 608 1949
or
www.tcd.ie/Physics
Tel: +353 1 608 1075

DID YOU KNOW?

2005 is the World Year of Physics

TRINITY COLLEGE

The University of Dublin

Provisional Term Dates 2005-2006

Freshers Week *- orientation and registration for all new students*	3 October 2005 – 7 October 2005
Michaelmas Term	10 October 2004 – 9 December 2005
Hilary Term	9 January 2006 – 10 March 2006
Trinity Term	3 April 2006 – 12 May 2006
Examination Period	22 May 2006 – 16 June 2006

Important Dates for 2004 Applicants

15 December 2004	TCD Open Day
1 February 2005	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, Arts and Social Sciences Building, Trinity College, Dublin.
1 March 2005	Closing date for applications to sit the University Matriculation Examination. 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.
1 April 2005	Closing date for applications to the Bachelor in Acting Studies.
2 April 2005	Provisional date for Music and Music Education entrance examination.
1 May 2005	Late Closing Date for CAO. Late applications to restricted entry courses will not be considered. Late applications from mature students will not be considered. 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.
31 May 2005	Closing date for receipt of applications for the Reid Entrance Exhibition.
1 June 2005	Closing date for receipt of applications to the Bachelor in Nursing Studies and Bachelor in Midwifery Studies.
1 July 2005	Closing date for the professional Bachelor in Theology. Closing date for submission of a 'Change of Mind' to CAO.
26 September 2005	Preliminary courses for new students begin. There is a preliminary course in chemistry for students in the Faculties of Science and Health Sciences.
3 October 2005	Freshers Week. Orientation & registration week for all new students.
10 October 2005	Teaching for Michaelmas term begins.

Faculty of Arts (Humanities) and Faculty of Arts (Letters)

Faculty of Business, Economic and Social Studies

Faculty of Engineering and Systems Sciences

Faculty of Health Sciences

Faculty of Science

Copies of this publication are available free of charge from
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