



TRINITY COLLEGE DUBLIN
COLÁISTE NA TRÍONÓIDE, BAILE ÁTHA CLIATH

THE
UNIVERSITY
OF DUBLIN



UNDERGRADUATE PROSPECTUS 2014

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This document is also available in alternative formats upon request.
For further information contact the Admissions Office, Trinity College, Dublin 2.
Phone: +353 1 896 4444, E-mail: admissions@tcd.ie

Welcome from the Provost



I hope that you will consider joining us as a student at Trinity College Dublin. Trinity is recognised as Ireland's leading university. We are well-known globally for the excellence of our courses and research, the commitment of our staff and the employability and quality of our graduates.

Trinity was founded in 1592, and today the university is a vibrant cosmopolitan community of students from every county in Ireland and some 118 countries around the globe.

At Trinity you will learn from professors who are world leaders in their fields of study and inspiring teachers. You can choose from over 400 undergraduate degree courses across a range of disciplines in the Arts, Humanities, Engineering, Science, Business, Technology, Social Sciences, and Health Sciences. The Trinity curriculum is aimed at not just acquiring knowledge but at developing critical faculties of the human mind. Freedom of expression, willingness to engage in debate and express diverse points of view are valued and welcomed.

Solid academic and pastoral support is provided throughout your time in the university. Each incoming student is assigned a Tutor, a member of the academic staff, who is there to advise you and help if any personal problem arises. Our tutorial system is unique in Ireland. There is also a student-to-student mentoring programme for first year students. We offer a wide range of high quality services to all students such as the Careers Advisory Service, the Health Centre, a Counselling Service, and an Alumni Career Network for when you leave College.

Our safe and friendly campus provides an ideal environment for studying, learning, relaxing and living. Located in the heart of Ireland's capital city, it has state-of-the-art facilities such as a modern Sports Centre, the Science Gallery and the Trinity College Library, the largest research library in Ireland and renowned throughout the world.

Trinity has over 118 diverse and colourful societies and 50 sports clubs; the clubs and societies accept new members each year during Freshers' Week in September.

There are also opportunities to take a semester abroad while progressing in your course through Trinity College's partnership agreements with leading universities in other countries.

Employers worldwide hold Trinity graduates in high esteem. The University has produced generations of outstanding graduates. Some of the most famous people in Irish history have been educated here: writers like Oscar Wilde and Samuel Beckett; scientists like William Rowan Hamilton and E.T.S. Walton, who won the Nobel Prize for splitting the atom, as well as two Irish presidents and many industry leaders.

I hope you will consider Trinity as your first choice for undergraduate study for an exciting new journey that will open your mind to new experiences, ways of thinking and friendships, many of which will last for a lifetime.

Patrick Prendergast
Provost

July 2013

* Trinity College Dublin is ranked 1st in Ireland, and in 67th position in the top 100 world universities and 21st position in the top European universities by the QS World University Rankings 2012/13. In the Times Higher Education World University Rankings 2012/13, TCD is ranked 1st in Ireland, 110th in the top 200 world universities and 38th in the top European universities.



Fáilte ón bPropast

Tá súil agam go smaoineoidh tú ar dul chuig Coláiste na Tríonóide, Baile Átha Cliath, i do mhac léinn. Athnítear Coláiste na Tríonóide ar an ollscoil is fearr in Éirinn. Tá cáil ar chúrsaí agus ar thaighde Choláiste na Tríonóide ar fud an domhain mhóir chomh maith le díogras na foirne agus ar chaighdeán ard oideachais ár gcéimithe.

In 1592 a bunaíodh Coláiste na Tríonóide agus inniu tá pobal mac léinn bríomhar comhaimseartha ag freastal ar an gColáiste as gach contae in Éirinn agus as 118 tír ar fud na cruinne.

I gColáiste na Tríonóide cuirfear léann ort ó ollaimh ar ceannródaithe domhanda iad ina réimsí staidéir féin chomh maith le bheith ina dteagascóirí spreagúla. Tá 400 cúrsa fochéime ar fáil ann ar fud réimse disciplíní – sna hEalaíona, sna Daonnachtaí, san Innealtóireacht, san Eolaíocht, i nGnó, sa Teicneolaíocht, na hEolaíochtaí Sóisialta agus na hEolaíochtaí Sláinte. Ní hamháin go bhfuil curaclam Choláiste na Tríonóide dírithe ar an léann ach freisin ar choda tábhachtacha d'intinn an duine a fhorbairt. Tugtar cead cainte do mhic léinn agus bíonn fáilte rompu a bheith páirteach i bplé agus bíonn meas ar a gcuid tuairmí.

Cuirtear tacaíocht thréadach agus acadúil láidir ar fáil le linn do thréimhse san ollscoil. Sanntar Teagascóir, comhalta den fhoireann acadúil, do gach mac léinn a thagann isteach, a bhíonn ar fáil le comhairle a chur ort agus cuidiú leat le haon deacrachtaí pearsanta a thiocthadh chun cinn. Tá córas teagaisc dá gcuid féin againn. Tá clár meantóireachta mac léinn ar mhac léinn ar fáil do mhic léinn chéad bhliana. Cuirimid réimse leathan seirbhísí ardchaighdeán ar fáil do gach mac léinn, Seirbhís Ghairmthreorach, an tIonad Sláinte agus Seirbhís Chomhairleoireachta chomh maith le Líonra Gairme Alumni nuair a imeoidh tú as an gColáiste.

Tá timpeallacht an champais cairdiúil agus sábháilte le dul i mbun léinn, le dul ag foghlaim, le do scíth a ligean agus le maireachtáil. Lonnaithe i lár phríomhchathair na hÉireann tá saoráidí den scoth againn – Ionad Spóirt nua-aimseartha, an Gailearaí Eolaíochta agus Leabharlann Choláiste na Tríonóide, an leabharlann taighde is mó in Éirinn a bhfuil cáil uirthi ar fud an domhain.

Tá os cionn 118 cumann éagsúil agus bríomhar i gColáiste na Tríonóide chomh maith le 50 club spóirt; glacann na cumainn agus na clubanna le comhaltaí nua gach bliain le linn 'Seachtain na Chéad Bhliana' i Meán Fómhair.

Bíonn deiseanna freisin ann, i bhfoirm socruithe comhpháirtíochta atá ag Coláiste na Tríonóide le hollscoileanna móra eile i dtíortha eile, seimeastar a chaitheamh thar lear le linn duit a bheith i mbun staidéir.

Bíonn an-mheas go deo ag fostóirí ar fud an domhain ar chéimithe Choláiste na Tríonóide. Tá céimithe den scoth tagtha as Coláiste na Tríonóide leis na glúnta. Cuireadh léann ar roinnt de na daoine is mó le rá i Stair na hÉireann anseo: na scríbhneoirí Oscar Wilde agus Samuel Beckett; na heolaithe William Rowan Hamilton agus E.T.S. Walton, a bhuaigh an Duais Nobel faoi gur scoilt siad an t-adamh, chomh maith le beirt d'Iar-Uachtaráin na hÉireann agus ceannairí tionscail go leor eile.

Tá súil agam go smaoineoidh tú ar Choláiste na Tríonóide a roghnú i dtosach ar choláistí eile le dul i mbun staidéir agus tabhairt faoi thuras nua iontach ar a bhfaighidh tú taithí de chineál eile, a chuirfidh bealaí nua smaointeoireachta i do láthair agus trína ndéanfaidh tú cairde go brách.



Patrick Prendergast
Propast

Iúil 2013

* Tá Coláiste na Tríonóide, Baile Átha Cliath rangaithe sa chéad áit in Éirinn, sa 67ú háit i measc an 100 ollscoil is fearr ar domhan agus sa 21ú háit i measc ollscoileanna ceannródaithe na hEorpa de réir shraithliosta QS um Rangú Domhanda Ollscoileanna 2012/13. I sraithliosta um Rangú Domhanda Ollscoileanna 2012/13 de cuid Times Higher Education, rangaitear TCD sa chéad áit in Éirinn, sa 110ú háit i measc an 200 ollscoil is fearr ar domhan agus sa 38ú háit i measc ollscoileanna ceannródaithe na hEorpa.

Trinity College's Location



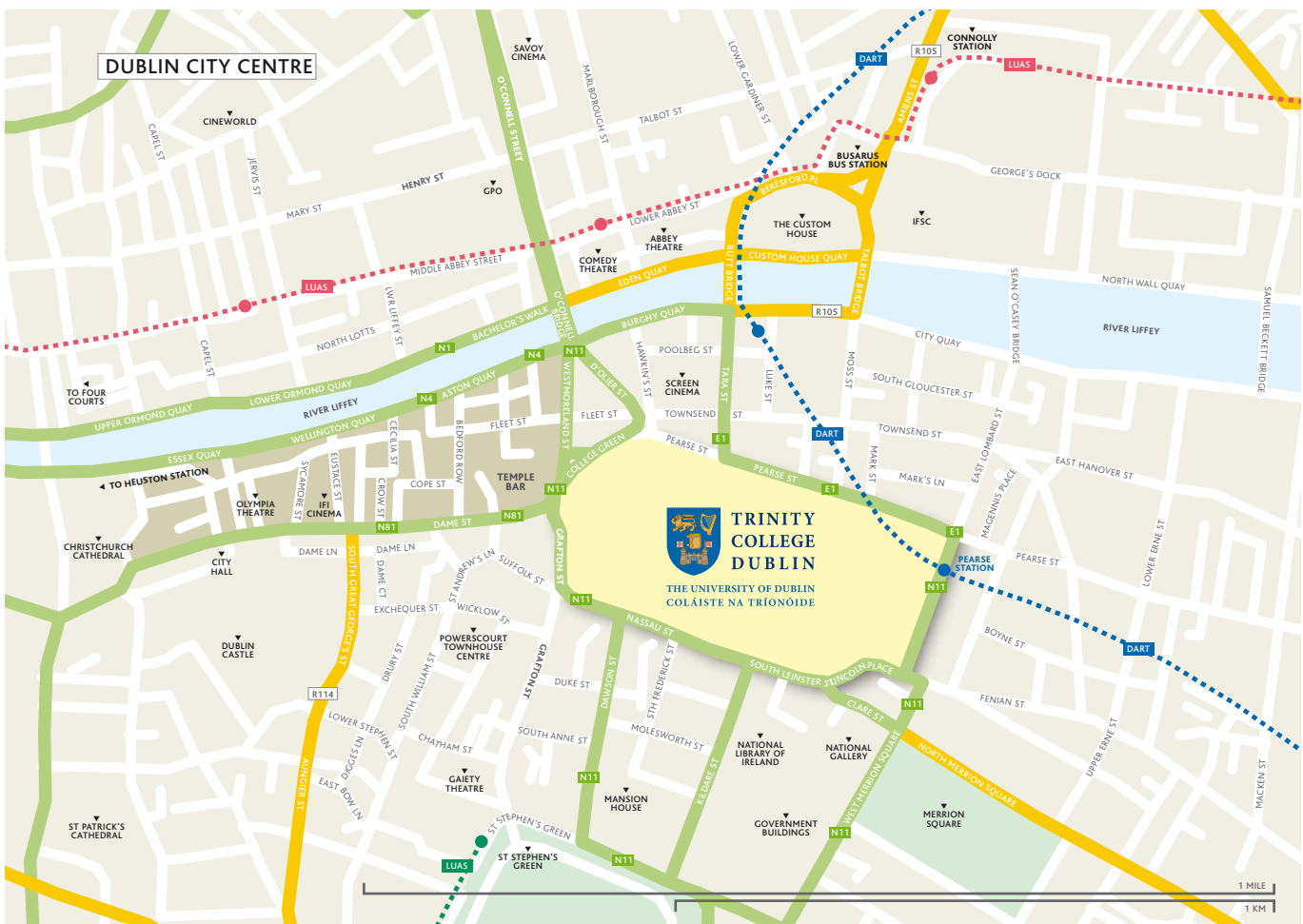
Trinity College Dublin's campus is situated in the heart of Dublin's city centre. Its state-of-the-art modern facilities include the Sports Centre, Science Gallery, Nanoscience research centre, Long Room Hub, and the Biomedical Sciences Institute, situated in a 47-acre campus of cobbled squares, historic buildings and green playing fields.

Trinity College's central location makes it highly accessible for all forms of public transport, such as LUAS (light rail transit) lines, the DART line (Dublin's suburban rail system) and a large number of Dublin's bus routes. The national bus routes are a few minutes walk away, Dublin's main two train stations are in close proximity, while Dublin airport is 13km from the campus and is directly accessible via bus or taxi.

Dublin has a well deserved reputation as one of Europe's leading cities for tourism and entertainment. Many of its best cultural, historical and entertainment centres are within easy walking distance of the College gates. The vibrant social scene in the city and on campus ensures that students enjoy a wonderful social life while studying at Trinity College.

Take a virtual tour of Trinity College's campus:
www.tcd.ie/virtualtour.

Browse campus maps and directions to Trinity College at www.tcd.ie/maps



Why Choose Trinity College?

University Rankings:

- TCD is Ireland's top ranked university, and the only Irish university in the world top 100 universities (QS World University Rankings 2012).

International Reputation:

- Trinity has a longstanding reputation for excellence in teaching and research, and most importantly, our graduates are held in high esteem by employers worldwide.

Diversity of Students:

- Our students come from every county in Ireland (with over 50% from outside Dublin) and all socio-economic backgrounds. Our international students represent 118 different nationalities.

Location:

- Trinity is situated in the heart of Dublin's city centre, at the centre of the country's transport hub, in a beautiful campus which contains a wonderful mix of modern and historic facilities (including the country's largest research library).

Course Options:

- include many module options, opportunities to study at leading universities worldwide, and the chance to become involved in our research activities.

Student Supports:

- include a member of our academic staff as a personal tutor for each student, a wide range of learning supports to aid your transition from second to third-level, an excellent Careers Advisory Service to help you find employment, and an Alumni Career Network for support after you have left College.

Student Life:

- Trinity College offers students an unparalleled experience, with 118 societies and 50 sports clubs waiting for you to join them in Front Square during Freshers' Week, course specific social events for you to get to know your new class mates, not to mention the legendary Trinity Ball.



Student Life at Trinity College

Student entertainment

University life is about so much more than just education and nowhere is this more evident than at Trinity College Dublin. The College sits in the heart of Dublin city where there is endless extra-curricular and recreational opportunities. At Trinity you can immerse yourself in a broad range of sports clubs and societies as well as a renowned student media environment. Through these activities you will get a real sense of the 'Trinity Experience', something that extends far beyond lectures, tutorials and exams. You will also have the benefit of the best students' union in the country, providing Trinity students with a wide range of entertainment and services. While all elected representatives work tirelessly to make sure that your Trinity experience is enjoyable and productive, the students' union officer which will have the greatest impact on you is the Entertainments officer. The Ents officer ensures that your entertainment needs are being fully catered for throughout your time in Trinity.

Freshers' Week

Incoming Trinity students can expect to be greeted by the infamous Trinity Fresher's week, filled with daytime and night-time entertainment giving you a real taste of what Trinity and the capital city has to offer. Previous Fresher's weeks have seen such acts as Fake Blood, Calvin Harris and Two Door Cinema Club perform for the Fresher's Ball. The Ents officer provides entertainment throughout the year including weekly nights out in Dublin's best nightclubs, comedy nights, Ireland's biggest mystery tour, as well as plenty of other events for you to enjoy.

Trinity Ball

The year is capped off with the most anticipated event on the Trinity events calendar, namely, the Trinity Ball. This is a night not to be missed, with the College transformed into a festival site for one night only and performances from internationally renowned artists such as Ellie Goulding, Bastille, Rizzle Kicks, Jessie J and Tinie Tempah performing in recent years.

The Pav

The Pavillion Bar, affectionately known as the Pav is one of the most important institutions that grace the grounds of Trinity. Sitting on the edge of the sports pitches, the Trinity student bar is the social hub of the College and offers a home to live music, big screens for the big games, and even just a meeting place before the night continues on to one of the many music venues and nightclubs located on the College's doorstep. Whether you're into a night of dance floor fillers, rock and roll, a bit of trad music, or a trip to one of the local cinemas or theatres, no other College offers such a diverse and easily accessible entertainment scene.

Of course Trinity's entertainment goes much further than nightlife. The University is renowned for attracting some of the most interesting and famous guest speakers from around the world. Recent speakers have included celebrity, political, sporting and academic giants such as Bono, Al Pacino, Dana White (President of the UFC), John McCain, Helen Mirren,

Nancy Pelosi, Rafa Benitez and Alex Ferguson to name but a few. Trinity clubs and societies ensure that your entertainment is not limited to the University's campus with numerous trips around Ireland and across the continent, including the annual ski trip to one of the best resorts in Europe.

See www.facebook.com/trinityents for details of the latest activities.

Student societies

There is more to the Trinity experience than lectures and study. One of the core elements of student life is the range of activities organised by students for students. Trinity's 118 student societies, covering a broad range of interests from the Fashion Society to TFM (the College radio station), constitute the most dynamic and active set of university student societies in Ireland.

You can try your hand at everything from singing to science fiction, get involved at all levels with dance and drama, go on hiking trips or raise awareness and campaign with Amnesty. Why not learn about photography and then take part in an exhibition or write and make your own film? You can then relax with the Yoga society or de-stress in an artistic way with the Trinity Arts Workshop or the Visual Arts Society.

Joining societies is an ideal way to meet people and it offers invaluable support as well as a unique introduction to Trinity life.

You cannot miss the array of society stands during Freshers' Week, during which Front Square will be packed with all societies, the Student Union, the College Publications committee and up to 50 Clubs all vying for new members. Many events will take place each day and well into the evening to kick off the year in style. Never fear if you don't make it during this week – societies are open to new members throughout the year.

"Whether it's making new friends, learning a new skill, leading a committee, or simply keeping up a busy social life, societies gave me the opportunity to experience, learn and do so much more beyond my course of study in Trinity, its where all my best memories of College were made." Holly Furlong

Find out more about Trinity College's student societies at: www.trinitysocieties.ie



Sports clubs and facilities

Sports clubs

Sports clubs are at the heart of the University and are run by students for students. There is something to suit everybody, whether you are new to a sport or would like to get involved at a more advanced level.

Thousands of new students use sport clubs each year to forge friendships which often last a lifetime. There are approximately 50 sport clubs ranging from team sports such as GAA, rugby, soccer and squash to individual sports such as athletics, fencing, rifle shooting and triathlon. Most clubs have competitions and trips off campus across the island of Ireland, and club activity can also mean a trip abroad. Clubs such as the rowing, swimming and tennis clubs travelled for competition and training camps abroad last year and the ski club organises a ski trip every year for members.

At intervarsity level last year, Trinity clubs were successful in a number of sports including athletics, boxing, gaelic games, fencing, lawn tennis, orienteering, squash, rowing, waterpolo, and ultimate frisbee.

In addition a significant number of students achieved individual success at intervarsity, regional and national levels, in their chosen sport.

The ladies hockey club play in the 1st Division of the Leinster League, the rugby club play in the AIL Division 1B and the gaelic football club competed in the Sigerson Cup. All sport clubs cater for both competition and recreational sport.

For more information on our sport clubs please view the departmental website at www.ducac.tcdlife.ie



Sports centre

Whether a budding sports star of the future or a sporadic exerciser, our state of the art sports facilities, backed up with a selection of excellent services, provide the ideal venue for a range of activities, available to all students, at all levels.

The sports centre is based on campus along with other sports facilities and includes:

- 25m swimming pool with sauna and steam rooms
- Fitness theatre and holistic treatment rooms
- A main hall which hosts basketball, badminton, volleyball and 5-a-side soccer
- Squash and tennis courts
- Futsal pitch
- Rugby, soccer and cricket pitch
- A grass athletics track in the summer
- The rowing club's boathouse is based two miles from College at Islandbridge
- and Santry Avenue (which is 5 miles from College) hosts additional pitches for rugby, soccer, hockey and gaelic games

The sports centre also runs and manages a growing programme of sports courses, and inter-college competitions; as well as fitness assessments/programmes and over 20 aerobic/dance classes every week, including Studio cycling, Power pump, Pilates, Circuits and much more. This is a great opportunity to maintain a healthy and fun-filled lifestyle whilst studying at Trinity. For more information visit our website: www.tcd.ie/sport

Students' Union

Trinity College fosters a unique sense of community, a bubble divorced from the hustle and bustle of the surrounding city centre. In our community, there is a recognition that there are a multitude of stakeholders in university life, with one of the most important being the student population. Trinity's students' union is the student-led organisation which seeks to promote and protect the interests of students in the College while also offering an outlet to ensure that students get the most out of the 'Trinity Experience'.

Trinity College Students' Union represents your views and interests to College on a variety of issues, such as tuition fees, library opening hours, accommodation and the provision of student services. Representatives from the Students' Union (SU) sit on all administrative committees of the College, ensuring the student voice is always heard and decisions made by College take into consideration the needs and wants of students.

In addition, the SU seeks to enhance the student experience and utilise the talents of the student body for everyone's benefit. The Union offers pastoral services, primarily in the areas of welfare and academics. Two full-time Education and Welfare officers assist students who may be in financial, mental or academic difficulties and offer advice and assistance whenever or wherever required. The transition from second level to third level can be difficult for some students, and these officers make it their priority to ensure the transition is as smooth as possible and to ensure that if adversity arises, there is someone to listen, console, advise and resolve.

Each student of the College is a member of the Students' Union, with a representative elected for every class to create a linkage between you and the officers who work for you. In addition, the Students' Union offers a number of services on-campus, including two shops, a bookshop, a cafe, a student travel card service and a dedicated entertainments arm, facilitated by a full-time 'Ents officer' who works to make sure the Trinity Experience extends beyond lectures and tutorials.

The Students' Union will always be there for you and can assist you in any capacity necessary. Should you choose to attend Ireland's premier university, TCDSU will guarantee that your four years with us surpass all your expectations.

For more information visit www.tcdsu.org

Trinity Publications

Trinity students produce the widest range of student publications of any other third level institution in Ireland. Our current publications include two broadsheet newspapers, 'Trinity News' and 'The University Times'; 'The Bull', Ireland's only student financial paper; 'Icarus' literary review; 'Piranha', a satirical newspaper; 'TCD Miscellany'; 'Trinity Film Review'; 'Trinity Agora', a political magazine; 'The Attic' and 'The Looking Glass'. We also support a number of the College's academic journals, namely 'The Social and Political Review', 'The Histories and Humanities Journal', 'The Journal of Literary Translation' and the 'Social and Economic Review'.

All students are encouraged to contribute to our publications, and new student publications can be supported should you feel we're missing out on coverage of any particular area.

Contributors are regular award winners at the National Student Media Awards, and many of our alumni have had very successful careers, including author and journalist Mark Little; Peter Murtagh and Eoin McVey – Managing Editors of The Irish Times; Paul McGuinness – Manager of U2; Ed Mulhall – former Managing Director of News at RTÉ, and former Financial Times editors.

Further information: www.trinitypublications.ie, www.trinitynews.ie and www.universitytimes.ie.

Theatres

Trinity contains four theatres, the Samuel Beckett Theatre, Players Theatre (which is used by the student drama society), and two theatres in the Lir Academy.

During term time the Samuel Beckett Theatre and the Lir's theatres showcase the work of students taking drama and professional acting courses, as well as performances directed and designed by some of Ireland's leading theatre practitioners.

The theatres also host performances during the Dublin Theatre Festival, and the Dublin Fringe Festival, while the Samuel Beckett Theatre has hosted visits from some of the most prestigious dance and theatre companies from Ireland, Europe, Asia and the United States.

Find out more at: www.tcd.ie/drama, www.trinitysocieties.ie/society/83/players, www.thelir.ie and www.facebook.com/TheLirAcademy

Galleries

Make sure to visit the free, cutting-edge exhibitions and events at Science Gallery on the Trinity campus. The antithesis of the dusty museum, Science Gallery is an ultra-modern, creative space where science and art collide, where white-hot scientific issues are thrashed out and you can have your say.

Science Gallery develops an ever-changing programme of interactive exhibitions, events, workshops and experiences that link science, technology and art, and encourages you to discover, express and pursue your interests in a friendly, sociable environment. Recent exhibitions include GAME, which explored the future of virtual and real-world play; and MAGICAL MATERIALS, which investigated the properties of the world's most futuristic materials.

We welcome you to attend an exhibition, take part in an event, or drop into our café to grab a coffee or pizza with friends.

See what's on now at sciencegallery.com.

Trinity also hosts one of Ireland's leading galleries of contemporary art, the Douglas Hyde Gallery. There are regular exhibitions of Irish and international art and photography, in addition to free film screenings, talks, and music events.

Find out more at www.douglashydegallery.com

Restaurants and coffee shops

Students can choose from a wide range of restaurants and coffee shops to suit all tastes and budgets, including:

- The modern Buttery Food Court with a hot food counter, deli counter, and gourmet coffee shop.
- The Old Dining Hall, where lunch is enjoyed in traditional splendour.
- The Hamilton Restaurant.
- Coffee shops serving Lavazza coffee in the Arts Building, the Westland, Áras an Phiarsaigh, and the School of Nursing & Midwifery.
- In addition, Dublin city's wide selection of restaurants, cafés, delis and coffee shops are within a few minutes walk of College.

See www.tcd.ie/catering

Accommodation

New entrants are predominantly accommodated at Trinity Hall, in Dartry, near Rathmines – about 2.5 miles from the city centre and easily accessible from Trinity College by bus and the LUAS tram system. There are over 1,000 residential rooms at Trinity Hall and a significant number are reserved for new entrants to College.



Rooms on campus are primarily reserved for students in their final year and Trinity Scholars, however, there are a number of rooms on the campus suitable for students who have mobility difficulties and who are capable of independent living.

See www.tcd.ie/accommodation/StudentsandStaff/Students/ApplyforaRoom for further details. Students may apply for a room once they have accepted a place in Trinity College.

Trinity Hall

Rooms are arranged in self-catering apartments, with each typically accommodating six persons and consisting of a mix of single and twin en-suite bedrooms with a large kitchen/living room. Residents of Trinity Hall also become members of the Junior Common Room which organises a range of extra-curricular activities.

- Why apply for a place in Trinity Hall? See www.tcd.ie/accommodation/StudentsandStaff/Students/TrinityHall/whyhalls
- Hear the views of former residents and parents of Hall residents by viewing our video clip at www.tcd.ie/accommodation/StudentsandStaff/Students/TrinityHall
- Trinity Hall Open Days are usually held on the Friday afternoon and Saturday in August after the Leaving Certificate results are published.
- For information on prices see www.tcd.ie/accommodation/StudentsandStaff/Students/TrinityHall/Rates

Other options for first-year students

For students who do not apply for or do not secure a place in College accommodation the alternative is to seek private rented accommodation, usually sharing an apartment or a house with other students.

The Accommodation Advisory Service operates annually from late August to the beginning of term in cooperation with the Students' Union. It provides information and contacts for students wishing to secure rented accommodation and offers guidance on what to look for when renting. Phones are provided so that students may make contact with landlords. The Advisory Service may also be able to give some information on digs or lodgings (residing in a room in a house with meals provided).

For further information and advice see www.tcd.ie/accommodation/StudentsandStaff/UsefullInformation/PrivateRentedAccommodation

An Ghaeilge/the Irish language

Irish is flourishing here in Trinity College in the heart of Dublin. You will hear it being spoken and will see it in College and student publications. College's **Cumann Gaelach** (see www.cumann.ie) is one of the most vibrant Irish-language student societies in the country, with an exciting programme of social events. **Seomra na Gaeilge** is a social and conversation space on campus for Irish speakers.

Free voluntary Irish classes are offered and are open to all students in College. Trinity College has two Irish-speaking student residential schemes – **Scéim Chónaithe Dhartraí** (in Trinity Hall, for first-year students) and **Scéim Chónaithe an Champais** (on the main campus, for continuing students).

Early in the second term, College's annual week-long Irish festival, **Éigse na Tríonóide**, takes place. The programme features a wide range of activities – including sport, debates, concerts and tours. Enjoy the Irish language as part of your Trinity College experience!"

Tá an Ghaeilge faoi bhláth anseo i gColáiste na Tríonóide i gcoillár Bhaile Átha Cliath, agus bíonn sí á labhairt ar fud an Choláiste. Tá sí le feiceáil i bhfoilseacháin oifigiúla an Choláiste agus i nuachtáin na mac léinn. Tá an **Cumann Gaelach** (féach www.cumann.ie), ar cheann de na cumainn mac léinn is bríomhaire sa tír, a chuireann clár spleodrach imeachtaí sóisialta ar fáil. Is spas sóisialta agus comhrá do chainteoirí Gaeilge é **Seomra na Gaeilge**.

Cuirtear ranganna deonacha Gaeilge ar fáil saor in aisce agus iad oscailte do na mic léinn go léir sa Choláiste. Tá dhá Scéim Chónaithe Ghaeilge againn do mhic léinn: **Scéim Chónaithe Dhartraí** i Halla na Tríonóide (do dhaoine atá ag tosú sa Choláiste) agus **Scéim Chónaithe an Champais** (ar phríomhchampas an Choláiste, do dhaoine atá sa dara bliain nó níos airde).

Go luath sa dara téarma, bíonn féile mhór Gaeilge an Choláiste – Éigse na Tríonóide – ar siúl ar feadh seachtaine, le réimse leathan imeachtaí, idir spóirt, díospóireachtaí, ceolchoirmeacha agus eile. Bain suilt as do shaol trí Ghaeilge i gColáiste na Tríonóide!

Tuilleadh eolais/further information: www.tcd.ie/gaeloifig

Student Support Services

Orientation for new entrants

During your first week in College (Freshers' Week), Trinity College offers a comprehensive orientation programme to new entrants. The programme includes general orientation meetings, specific meetings for your course, library tours, sports tours, advice sessions about issues such as managing your finances, and a range of nights out – organised by clubs, societies and the Students' Union.

Trinity College has a vast array of clubs and societies for you to join during Freshers' Week. They are a fantastic way to make new friends and to get a feel for the sense of community here at Trinity College. Also be sure to look up the Students' Union to find out what is happening throughout the year.

Personal tutor

All incoming undergraduates are assigned a personal tutor on entry. Your College Tutor will provide confidential information, help and advice during your time in Trinity on topics such as:

- Changing course
- Exam results
- Taking a year out
- Family problems
- Financial difficulties
- Illness, bereavement
- Appeals
- Disability

In a word, anything that gets in the way of you achieving your full potential. They will also act as a portal and help you contact other student support services. Find out more at www.tcd.ie/Senior_Tutor

"My tutor made sure I could contact her anytime" –

First year TSM student

"My tutor was excellent. He gave me advice when I needed to transfer course and was available at lots of different times to meet with me" – **First year Science student**

Peer mentoring programme

From the moment you arrive in College right the way through to your end of year exams Student2Student (S2S) is here to make sure your first year is fun, engaging and a great foundation for the rest of your time in Trinity. You'll meet your Student 2 Student (S2S) mentors during Freshers' Week (your first week in College) and they will make sure that you know other people in your course before your classes even start. They will keep in regular touch with you throughout your first year and invite you to events on and off campus. They will also give you useful information about your course and what to look out for.

Mentors are students who have been through first year and know exactly what it feels like, so you never have to worry about asking them a question or talking to them about anything that's worrying you.

S2S also offers trained Peer Supporters if you want to talk confidentially to another student or just to meet a friendly face for a coffee and a chat. S2S is supported by the Senior Tutor's Office and the Student Counselling Service.

<http://student2student.tcd.ie>,

E-mail: student2student@tcd.ie

Phone: + 353 1 896 2438

Careers Advisory Service

Trinity graduates are highly sought after and employer events on campus cover the full spectrum of opportunities from commercial to not-for-profit. The Careers Advisory Service (CAS) offers a range of services and resources to assist students in preparing for, making, and implementing informed decisions about their future careers:

- Group and one to one guidance to help with career-planning including support after graduation. In the case of the class of 2011, 89% of graduates were working, studying or both six months after graduation.
- Assistance with the search for internships, employment or further study options. The VACWORK programme offers students the opportunity to secure work experience during the summer before their final year.
- Access to specialist careers information resources including dedicated databases available exclusively from our website.
- Extensive training in all aspects of the further study or job application process including CV preparation, completion of application forms and the preparation of personal statements.
- Practice interviews on video.
- Development of skills through volunteering in Ireland and abroad.

Find out more at www.tcd.ie/careers and www.tcd.ie/community

The careers Advisory Service continues to provide careers support after graduation and, in association with the Alumni Office, the very successful Trinity Alumni Career Network provides workshops to assist graduates seeking employment as well as those considering a career change. In addition, Front Gate Online is the web based alumni community, which allows graduates to connect with other alumni and support current students.

College Health Service

The College Health Service provides GP services for students.

- Student consultations are free of charge with modest fees for additional services.
- There are specialised clinics in physiotherapy, psychiatry, travel health, sexual health and minor surgery.
- It also focuses on the psychological and occupational aspects of student health and health education.

Health care provision in Ireland

All EU students from outside the Republic of Ireland pursuing a full degree programme should contact the Health Service Executive for advice regarding healthcare provision – see www.hse.ie

- All EU students should bring with them a European Health Insurance Card issued in their country of origin.
- Non-EU students are not entitled to free 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.
- Students without private health insurance who will be resident in the country for a minimum period of one academic year may apply to the Health Service Executive to be assessed for entitlements. These entitlements are means tested by the HSE.

Student Counselling Service

The Student Counselling Service is staffed by qualified professional psychologists and psychotherapists. It provides a range of free services to TCD students including:

- Short-term individual counselling for personal and psychological issues, including a daily emergency slot and lunchtime drop-in consultations.
- Groups, e.g. for anxiety, depression, bereavement, mindfulness, and support for international students.
- Wellbeing workshops e.g. self-esteem, body image issues, and relaxation.
- The Online Mental Health Portal, a TCD web community for obtaining self help information and getting anonymous counselling support: <https://mymindmatters.ie>
- An after-hours Niteline telephone service run by students for students. Free-phone: 1 800 793 793, 7 nights per week during term-time, 9 pm-2.30 am.

For more information and resources: www.tcd.ie/student_counselling

Chaplaincy

- The ecumenical Chaplaincy team work closely together and represent three of the main Christian traditions in Ireland: Roman Catholic, Church of Ireland (Anglican/Episcopal) and Methodist.
- It is a place of hospitality for all members of the College community; students of all faiths, or none, are welcome.
- A variety of worship gatherings & events are organised during the year – traditional, and non-traditional Christian services (denominational and ecumenical) take place daily on campus during term time.
- During term time, tea and coffee are available all day in the Chaplaincy Common Room (House 27) and students are invited to call in for a free lunch on Tuesdays – come early, it's always full!

Day nursery

Trinity College's day nursery takes care of children from 3 months to 4.5 years of age. There are five different rooms for children of different age groups.

See www.tcd.ie/about/services/daynursery for further details.

Mature students officer

Trinity College recognises the unique contribution and commitment that mature students make to College academic and social life. A full-time mature student officer provides guidance and support to both prospective applicants and current mature students.

Supports include:

- One-to-one guidance and support for prospective mature applicants.
- Further Education College visits and shadowing opportunities.
- An information seminar on preparing for College for all successful mature applicants each July.
- A tailored week long orientation programme for mature student prior to the start of term in September.
- Student support drop-in clinics for registered mature students.

For further information on studying in TCD as a mature student please phone +353 1 896 1386, e-mail: mature.student.officer@tcd.ie or visit www.tcd.ie/maturestudents



Access services

TAP (the Trinity Access Programmes) provide a range of supports and services through their Post-Entry Progression Programme. These supports are available to students who enter undergraduate programmes in TCD through the Higher Education Access Route (HEAR), Foundation Courses for Young Adults and Mature Students, and the CDVEC University Access Courses (in partnership with Pearse College, Plunkett College and Liberties College).

These supports include:

- A tailored week long pre-university orientation programme (the week before Freshers' Week).
- Academic supports including extra tuition, a laptop lending service, a writing resource centre and maths help room, and the TAP studio – a designated study space equipped with IT resources.
- Social and personal supports – each Junior Freshman (first-year) student is linked to a member of the TAP staff, their TAP advisor. Advisors meet with students regularly and offer advice, guidance and support and assist students with any personal or academic issues. TAP also runs a number of social activities throughout the year for students.
- Financial support (when available and applicable) including a TAP scholarship, supported childcare scheme and the TAP emergency fund.

Comprehensive information about the full range of TAP services and supports is available from: web www.tcd.ie/Trinity_Access/current e-mail tapadmin@tcd.ie or by phone +353 1 896 2751 / 3598.

Disability Service

Trinity College Dublin 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. Students with a disability are encouraged to register with the Disability Service to seek supports where the disability could affect their ability to participate fully in all aspects of the course.

Support available to students with disabilities includes:

- Pre-entry advice for Leaving Certificate students on admissions, course choices and supports. www.tcd.ie/pathways-to-trinity e-mail pathways@tcd.ie
- Needs assessment on entry to determine any additional learning requirements.
- Assistive technology training and technology rooms in College libraries.
- Liaison with your tutors/lecturers to help arrange accessible programme materials.
- UNILINK: a practical occupational therapy support service for students registered with the Disability Service. Unilink supports students managing the academic and social demands of their student role. For more information: www.tcd.ie/disability/services/Unilink/index.php
- Comprehensive information about the full range of services is available from www.tcd.ie/disability e-mail disab@tcd.ie phone +353 1 896 3111, or drop in to see us in Room 2054, Arts Building.
- Students with a disability should apply to the Disability Access Route to Education (DARE), details on page 21.



Learning Supports

Student Learning Development

Learning at university is different to learning at second-level. Student Learning Development helps you to master the new academic skills and self-directed learning needed for your success at Trinity. The supports include:

- A website with a range of resources including podcasts, downloads and interactive workshops that provide academic support to students. Topics include time management, effective study skills, exams, academic writing, critical thinking, presentation skills and more.
- Free workshops throughout the year on a variety of topics for students from all departments.
- Individual consultations – meet with a learning advisor to discuss your study issues.
- For more information please visit <http://student-learning.tcd.ie>
- Other supports for learning in College include:
 - The Maths Help Room, which provides informal help from Trinity students. It is located in the Maths Seminar Room, 2nd Floor, 18 Westland Row and is open on Monday-Friday, from 1-2pm.
 - The Programming Support Centre is available to all computer science and engineering students taking programming courses. See www.scss.tcd.ie/misc/psc
 - English Language support is available for all TCD students for whom English is a second language, in the form of weekly English for Academic Purposes modules which focus on the types of skills necessary for successful academic writing, listening to lectures, and academic presentations. For more information please visit www.tcd.ie/slscs/English
 - Peer Learning is available in several of the modern language departments. It involves working with other students to get the most from your course to improve performance. E-mail us for further information: student.learning@tcd.ie

Library

Trinity College's library is the largest research library in Ireland. The collections include 6 million printed volumes, nearly half-a-million electronic books, 80,000 electronic journals, the country's largest collection of maps and printed music, and an extensive collection of manuscripts, and they are all available to every student. The library is not just one building but several, across the campus and in our teaching hospitals.



There are group study rooms, a multimedia resource area, assistive technology suites, Wi-Fi, and staff to help on a one to one basis, and by group tours and demonstrations. All the electronic collections are available to students on the internet and books can be reserved, renewed and requested online.

Thousands of visitors come each year to see the Book of Kells and exhibitions in the Long Room, which is one of the most famous library spaces in the world, see page 209. Admission is free for Trinity College students.

Find out more about the Library at www.tcd.ie/Library

IT services for students

As a student at TCD, you are provided with a wide range of computer facilities and services, including:

- Access to hundreds of computers located in over 20 student computer rooms, many of which are open 24 hours a day, 7 days a week
- Fast, secure and free Wi-Fi across College and in College residences for your computer, phone or tablet
- A TCD Gmail account, called MyZone, which is yours for life
- E-learning resources for many courses, available in the Blackboard Learn system
- Access to IT support from the IS Services helpdesk on campus and via email and phone
- Find out more at http://isservices.tcd.ie/students/new_students.php

Optional courses

Broad Curriculum

- Trinity College offers students the opportunity to study one module outside their chosen course, via the Broad Curriculum. These Broad Curriculum modules are usually available to students in the Senior Freshman (second) or Junior Sophister (third) year. The chosen module would typically account for approximately 10% of the teaching for the year.
- There are 19 broad curriculum modules available, in literature, film studies, languages (2 modules), philosophy, psychology (2 modules), political science, living sustainably (2 modules), criminal law, business, planet earth, art in Ireland (2 modules), science and technology, gender and society, and history (2 modules).
- Find out more at www.tcd.ie/Broad_Curriculum

Optional language courses

Optional evening language courses (for students who are not studying a language as part of their degree) are available. The courses are designed to help develop practical communication skills for study or work experience abroad. These language modules may also be taken for credit by undergraduate students under the Broad Curriculum (see above).

The following language modules are available:

- Irish, French, Spanish, Italian, German, Turkish, Korean, Japanese, Croatian.

For some courses, the minimum entry requirement is a Leaving Certificate (or equivalent) qualification in the relevant language. Other courses are open to complete beginners.

The number of places available for first-year students is limited, but students may apply for optional and credit-bearing language courses in subsequent years.

Find out more at www.tcd.ie/slscs/undergraduate/clcs-language-modules

OPEN DAY 2013

Saturday 7th December 2013

The exciting and informative programme of events will include:

- Course specific presentations
- Individual stands for each course, where you can meet our academic staff and current students to obtain detailed course information
- Demonstrations and laboratory tours
- Presentations about student sports, societies and the Students' Union
- Specific sessions for mature students, access students, and parents
- Campus tours and tours of College facilities, including the sports centre



Full details will be available at www.tcd.ie/Admissions/undergraduate in November.

WE LOOK FORWARD TO MEETING YOU AT OUR OPEN DAY!

Find Out More About Trinity College

Open Day 2013

The staff and students of Trinity College would like to invite all students, their parents/guardians, mature students, teachers and guidance counsellors to attend our Open Day, which will take place on Saturday 7 December 2013. See the preceding page for further details.

Mature students information seminar

A seminar providing advice and information on making an application to TCD for prospective mature students will take place on Thursday 9 January 2014 from 5 pm to 6 pm. This seminar will be repeated from 6 pm to 7 pm. Please visit the mature student website in December 2013 for more information: www.tcd.ie/maturestudents

Mathematics/Physics open day

A specific Mathematics/Physics open day will be held on Saturday 9th November 2013, for students, parents and teachers. The day will include:

- Presentations by our professors and lecturers on topics like particle physics, string theory, nanophysics, astrophysics.
- Presentations about our degrees in maths and physics.
- Information about career opportunities for maths and physics graduates.
- A tour of the laboratories and other facilities.
- The opportunity to chat to the lecturers, and to students currently studying in Trinity College.

See www.maths.tcd.ie or www.tcd.ie/Physics for more details closer to the date.

Nursing open evening

A specific Intellectual disability nursing, and Mental health nursing open evening will be held in January 2014. Students, parents and teachers are very welcome to attend.

There will be presentations, nursing skills demonstrations and an opportunity to talk to our professors, lecturers, clinical tutors and current students about the courses. Light refreshments will be provided. See www.nursing-midwifery.tcd.ie for more details in December.

Nationwide careers fairs

Trinity College is represented at all of the major nationwide IGC careers fairs and at many other regional careers fairs each year. At these events prospective students can obtain copies of the prospectus and can find out about Trinity College's courses, specific entry requirements and student life at Trinity College. For details of careers fairs in your area contact the Guidance Counsellor in your school, your local adult education college, or see www.qualifax.ie.

School visits

Staff from Trinity College are available to visit a limited number of schools to provide a presentation about Trinity College and our range of courses. If you would like to request a visit to your school please contact the Admissions Liaison Officer by e-mail: schools.liaison@tcd.ie, or by telephone at +353 1 896 3992.

Specific visits from our Schools of Computer Science and Statistics, Nursing & Midwifery, Engineering, and Religions, Theology and Ecumenics are also available (where visits may be impractical due to geographic location, visits can be organised for small groups of prospective students to meet the academic staff in Trinity College).

To request a visit please contact:

- The School of Computer Science and Statistics:
E-mail: enquiries@scss.tcd.ie Tel: +353 1 896 3665
- The School of Engineering: E-mail: engineering@tcd.ie
Tel: +353 1 896 1142
- The School of Nursing and Midwifery (Jeni Ryan):
E-mail: ryanjen@tcd.ie Tel: +353 1 896 3860
- The School of Religions, Theology and Ecumenics,
Department of Religions and Theology:
E-mail: jwelch@tcd.ie Tel. +353 1 896 1297
- The School of Religions, Theology and Ecumenics,
Loyola Institute: Email: lingsaye@tcd.ie
Tel. +353 1 896 3477

Visiting Trinity College & Campus tours

Guidance counsellors may request an on-campus presentation and a campus tour from the Admissions Liaison Officer (for visiting school groups). See above for contact details.

The Admissions Office in Trinity College is open daily, Monday-Friday from 9.30-5.00. Potential applicants are more than welcome to drop in to discuss Trinity College's application procedures.



In addition, the School of Computer Science and Statistics also offer small groups of students the opportunity to meet members of their teaching staff on-campus. For further information please contact the School of Computer Science and Statistics directly by e-mail: enquiries@scss.tcd.ie or by telephone: +353 1 896 3665.

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 – please contact +353 1 896 2320.

The Science Gallery also holds regular exhibitions and events, see page 8.

Transition year programmes

Biochemistry and Immunology

The School of Biochemistry and Immunology runs two separate work-experience weeks for transition year students each year, taking 16 students each week. Students are selected from a range of schools around the country to maximise school participation. The students spend half their week in a research laboratory, where they interact with students and senior researchers, learning about and participating in the laboratory's research. The rest of the week involves group activities with talks, quizzes and visits to scientifically relevant sites on campus. Application forms available on the School website: www.tcd.ie/Biochemistry

Botany

The Department of Botany hosts transition year students for a week-long structured work experience programme that covers the range of activities of the Department. Students have the chance to experience what happens behind the scenes in an active research environment, working alongside technical staff, PhD students and professional scientific researchers. In addition to working at the Trinity Botanic Gardens, students have the chance to extract DNA in the molecular laboratory, to examine plant/animal interactions, to examine seed germination and storage using the Irish endangered plant seed-bank, to measure, in the field, critical environmental parameters and to work in the

internationally important Herbarium. In addition, transition year students will meet with staff and attend presentations. Students seeking further information should contact the Department directly via e-mail: botany@tcd.ie. More information about the Department can be found at www.tcd.ie/Botany

Chemistry

The School of Chemistry hosts a week long programme aimed at transition-year students. The programme involves a series of lectures, practical work and interactive tours of the facilities. This course offers a unique opportunity for interaction with students from different schools and for hands-on exposure to advanced methodology in world-class laboratories. Dates for the 2013-14 TY programme will be announced on the School of Chemistry website in autumn: www.tcd.ie/Chemistry

CRANN (Nanoscience)

CRANN is Ireland's leading nano and materials science institute and hosts two "Experience Nano" weeks for TY students yearly, one in spring and one in autumn. We take 15 students in each week from different schools around the country. Students learn about the basics of nanoscience through lectures and lab workshops with postgraduate students. They get to see advanced electron microscopes which we use to understand tiny materials like transistors in computer chips and medical devices. Students also learn about how CRANN works with industry partners, e.g. Intel, and about the commercialisation of research. Application forms available at <http://crann.tcd.ie/Education-Outreach/School-s-Programme/Experience-Nano.aspx>

Medicine

The School of Medicine runs a one week Transition Year Programme during the academic year. There are a limited number of places available and students are selected from different schools in order to maximise school participation and geographical spread. In order to provide an insight for TY students into the life of a medical student/clinical practitioner, they spend 1 day in teaching activities with 1st and 2nd year medical students in TCD, 1 day in clinical skills tutorials, and the remainder of the week assigned to a clinical team in the teaching hospitals. Application procedures are available on the School website: www.medicine.tcd.ie/education/THTYP



Nursing & Midwifery

The School of Nursing and Midwifery will run a transition year programme in early 2014. Exact dates and further details for the programme will be announced on the School of Nursing and Midwifery website in autumn 2013: www.nursing-midwifery.tcd.ie

Pharmacy

The School of Pharmacy and Pharmaceutical Sciences hosts structured week-long work experiences for transition year students from October to March each academic year. This includes a range of activities such as a tour of the facilities, attending lectures, seminars, workshops and practicals with our Pharmacy students. See www.pharmacy.tcd.ie/info/transitionyear for further details.

Physics

The School of Physics hosts a number of outreach events during the academic year. The popular Transition Year Physics Experience (TYPE) is held in November of each academic year. It lasts a full week and introduces students to nanophysics and astrophysics. The School also hosts two one-day events in February each year which focus on nanophysics or astrophysics. Information on all TYPE activities is sent to all secondary schools inviting them to submit applications for selected students. Public lectures for secondary school students are also held during Science Week. The details are posted on the Science Week website (www.scienceweek.ie). Details on the various events can also be found on the School of Physics website: www.tcd.ie/Physics/Outreach

Science Gallery

The Science Gallery runs week long mentoring programmes for up to 20 transition year students at a time, from different schools nationwide – in February/March and October/November. Each programme is developed for students to participate in workshops and experiments, lab visits and exhibition tours, presentations, talks, quizzes and an opportunity to potentially develop project ideas for upcoming exhibitions. For application details and other enquiries related to the mentoring programme please e-mail typrojects@sciencegallery.com

Zoology

The Department of Zoology offers a Transition Year Programme to introduce secondary school students to the exciting world of scientific research and teaching in our department. During your week with us you will get to meet our staff, students and post-graduates in a friendly and structured week of laboratory and related activities.

See www.tcd.ie/Zoology/TY/index.php for further details.

Online Information

Courses: www.tcd.ie/courses

Admissions: www.tcd.ie/Admissions/undergraduate

CAO Points: www.tcd.ie/Admissions/undergraduate/requirements/entrypoints

Accommodation: www.tcd.ie/accommodation/StudentsandStaff/Students/TrinityHall

Main TCD website: www.tcd.ie


Virtual tour: www.tcd.ie/virtualtour


Student life: www.tcdlife.ie

Sports clubs: www.ducac.tcdlife.ie

Sports facilities: www.tcd.ie/sport

Student societies: www.trinitysocieties.ie

 www.facebook.com/trinitycollegedublin

 www.youtube.com/trinitycollegedublin

 <http://itunes.tcd.ie>

 <https://twitter.com/tcddublin>



NEW 'TRINITY EXPLORE' WEBSITE



Trinity has always looked for students from the entire island of Ireland, and over the past few months we have invited our students to become ambassadors, so that prospective students could hear honest, genuine accounts of life in Trinity from people from their own county. Their contributions – which were filmed by a Trinity postdoctoral student – can be found at a new, student-friendly portal www.tcd.ie/explore and there you can hear accounts from current students from all thirty-two counties about life in Trinity.

Scholarships and Awards

Financial assistance while at College

Since its foundation in 1592, Trinity College has sought to assist students of limited means. There are a number of scholarships, awards and bursaries which you may be able to apply for during your time in College. Details of these bursaries or awards can be found under Financial Assistance in the College Calendar (www.tcd.ie/calendar).

If you are experiencing financial difficulties you can also apply to the Student Assistance Fund. All students may apply, including first year students. Applicants complete a form and supply evidence of means in order to be assessed for the fund. Full details are available from the Senior Tutor's Office, House 27 and at www.tcd.ie/Senior_Tutor

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. Exhibitioners and their parents/guardians are invited to attend a ceremony during their first term. The schools in which exhibitioners received their post-primary education are informed.

Sizarships

Sizarships 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. Application details are available at www.tcd.ie/Admissions/undergraduate/scholarships. Sizarships are normally tenable for the first two years of an undergraduate course.

Foundation scholarships

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 week before the start of the second term. Foundation scholars are entitled to certain privileges, which include having their course fees paid by the College (non-EU students pay EU fees), 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.

Sport scholarships

Every year sports scholarships are awarded to sportsmen and sportswomen of national/international standard who come to study and compete for Trinity College. The scholarships provide the following benefits:

- Financial grant.
- Physiological assessment/fitness testing and follow-up training.
- Workshops to include Nutrition, Psychology etc.

Scholarships are open to all sports and are tenable for one year, however, they may be renewed (on a yearly basis) for up to four additional years. Application forms may be downloaded from the website listed below. The closing date for applications is Friday 3rd October 2014.

For a full list of current sports scholars and further details, eligibility and how to apply please contact the Department of Sport:

Tel: +353 1 896 1502

E-mail: sport@tcd.ie

Website: www.tcd.ie/sport



School prizes

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

Tel: +353 1 896 4444, E-mail: admissions@tcd.ie

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. The awards, which do not exceed five in number, are open only to students of limited means and who are natives of county Kerry (see www.tcd.ie/Admissions/undergraduate/scholarships for further details). They are granted to qualified candidates on the basis of their public examination results and are tenable for two years.

Students not eligible are those who:

- (a) are above the standing of Junior Freshman (first year)
OR
- (b) are graduates of any chartered university
OR
- (c) have completed their nineteenth year before 1 May of the year in which they compete.

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, may have their exhibitions extended for two further years.

Application details are available at www.tcd.ie/Admissions/undergraduate/apply/forms. The deadline for applications is 31 May of the proposed year of entry.

Choral scholarships

Eight choral scholarships valued at €1,300 are available for the year 2014/15.

The choral scholars form the core and leadership of the Chapel Choir: a mixed-voice choir of about twenty-five singers which performs in a liturgical context, but is not itself a religious organisation. Applicants of any faith, denomination or none are welcome. Some previous choral experience is an advantage and the ability to read music is essential.

Application is made in person at the Chapel Choir desk in Front Square during Freshers' Week (the first week in College); an appointment for an audition before the selection committee is then made.



How to Apply

EU applicants

Application for admission (except where otherwise stated) should be made to the Central Applications Office (CAO). Applications may be submitted online: www.cao.ie.

- Normal application deadline: 1 February;
- Late application deadline: 1 May;
- Change of mind deadline: 1 July.

Note that applications to Medicine, to restricted entry courses, and by mature students must be made by 1 February, see page 206. Applications to Medicine must be submitted online.

A CAO presentation is available at:
www.cao.ie/index.php?page=downloads

Feasibility study in admissions: see page 26
Applicants from Northern Ireland: see page 27

Am I an EU applicant?

An EU applicant is a person:

- 1 who is ordinarily resident¹ in the EU²
AND
 - who will have received full-time post primary education
AND/OR
 - who has worked full-time³ in the EU
for three of the five years immediately preceding
admission to Trinity CollegeOR
- 2 who holds a passport from an EU² state and has received
all full-time post primary education in the EU²
OR
- 3 who has
 - official refugee status⁴OR
 - been granted humanitarian leave to remain in the
Stateand who has been ordinarily resident in the EU² for three
of the five years immediately preceding admission to
Trinity College

Notes:

- 1 For students aged under 23, the student's parent(s) must also have been ordinarily resident (that is – principal residence for the purpose of taxation) in an EU² Member State for three of the five years prior to the student's entry to Trinity College.
- 2 EU or EEA countries (Norway, Iceland and Lichtenstein) or Switzerland.
- 3 Where an applicant can show that they have been in receipt of social welfare payments this may be taken in lieu of full-time employment.

- 4 Applicants who have written confirmation that they have been allowed to come to Ireland as part of the family re-unification scheme may also be eligible.
- 5 The Admissions Office may contact some applicants in order to seek supporting documentation regarding their status (EU/non-EU).
- 6 A student's registered status (EU/non-EU) cannot be changed during a programme for which he/she is registered.

All other applications are considered to be non-EU applications (see page 25 for further information).

EU enquiries

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

The Admissions Office, Trinity College, Dublin 2, Ireland.
Tel: +353 1 896 4444, Fax: +353 1 872 2853

E-mail: admissions@tcd.ie

Website: www.tcd.ie/Admissions/undergraduate

Applicants with a disability

Students who require particular supports or reasonable accommodations due to a disability should notify Trinity College of these requirements in advance of admission to College. Disclosure of a disability or specific learning difficulty will not adversely affect your application in any way.

Disability Access Route to Education (DARE)

The Disability Access Route to Education (DARE) is a supplementary admissions scheme for school leavers with disabilities. School leavers who meet the eligibility criteria compete for a quota of places allocated to applicants on a reduced points basis. All applicants must meet the Irish Leaving Certificate (or equivalent) minimum entry and, where relevant, subject specific requirements, see page 28.

Who Should Apply to DARE?

DARE is for school leavers (under 23 years old as of 1 January 2014) who have the ability to benefit from and succeed in higher education but who may not meet the points for their preferred course due to the impact of a disability. Mature and FETAC students have different admissions routes, see below and page 28.

How to Apply to DARE?

1. Apply to CAO by 17:15 on 1st February 2014.
2. No later than 17:15 on 1st March 2014, you must disclose your disability and/or specific learning difficulty in your CAO application and fully and correctly complete Section A of the Supplementary Information Form, as part of your CAO application. If you wish to be considered for the DARE scheme, you must indicate this on Section A of the fully completed SIF by 17:15 on 1st March 2014.
3. The fully completed Second Level Academic Reference (Section B) and Evidence of Disability (Section C) of the SIF must arrive at the CAO no later than 17:15 on 1st April 2014.

Condition of a DARE Offer

Students who receive a DARE offer must register with the Disability Service and agree on a schedule of meetings with the service.

More Information

More Information on DARE is available from your school Guidance Counsellor or the Disability Office (see below). Information can also be found on: www.accesscollege.ie; www.cao.ie; www.tcd.ie/pathways-to-trinity; www.tcd.ie/Admissions/undergraduate/apply/eu/disability

A DARE Application Clinic will be held on Wednesday 22 January 2014, from 6pm-8pm in the Arts Building, Trinity College Dublin. To reserve a place please contact the Disability Service on 01 896 3111.

Language or mathematics waiver

Students with specific learning difficulties, sensory or communication disabilities may apply for a waiver of the modern language requirement, provided that the study of a language does not form part of their chosen course of study. In addition, students with dyscalculia, sensory or communication disabilities, may be eligible to request exemption from the minimum entry requirement of a pass in mathematics, where mathematics does not form any component of their intended course. See www.tcd.ie/Admissions/undergraduate/apply/eu/disability for further details. Please note:

1. This is a separate application to the DARE supplementary admissions process and written application must be made to the Admissions Office, Trinity College, Dublin 2 before 1 July of the year of entry.
2. Students should be aware that the criteria for waiving the language or mathematics requirement are different to that required for the DARE scheme. The granting of a language waiver does not mean that a student is automatically eligible for the DARE scheme.

Allocation of places

In recognition of national and college targets to increase the number of students with sensory and physical disabilities, DARE offers will be made first to eligible applicants within these target groups, and remaining places offered to all other students with disabilities who are eligible.

Further information

If you wish to clarify any issues or concerns you may have in relation to your disability and the demands of a course, or on professional practice after qualification, please contact a member of the Disability Service staff by phone or e-mail at:

Phone: + 353 1 896 3111

E-mail: disab@tcd.ie or pathways@tcd.ie

Website: www.tcd.ie/disability or

www.tcd.ie/pathways-to-trinity

Mature students

All undergraduate courses in Trinity College are open to mature applicants. Mature student applicants are not required to satisfy the normal minimum entry 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 knowledge of their course choice(s).

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

- be an EU applicant (see page 21).
- be at least 23 years of age on 1 January 2014.
- submit a CAO application form to the Central Applications Office (CAO) by 1 February 2014.
- submit a Trinity College Mature Student Supplementary Online Application Form (required for all CAO courses with the exception of nursing and midwifery) by 1 February 2014.

Late applications will not be considered from mature students.

CAO applications may be made online at www.cao.ie

The Trinity College Mature Student Supplementary Application Form should be submitted online. A full list of available courses can be accessed on www.tcd.ie/courses. Please select the appropriate course choice from the list and access the form by selecting the Mature Student Supplementary Application Form option. See www.tcd.ie/maturestudents/apply for full details on making an application.

Please note that a valid CAO number is required prior to submitting a Trinity College Mature Student Supplementary Online Application Form. Only three course options will be considered.

Applicants to all courses may be required to attend an interview. Interviews are usually held between mid-March and mid-May.

Certain courses may also require applicants to meet other assessment criteria. For information on additional assessments for specific courses please refer to the Mature Student Guidelines booklet at www.tcd.ie/maturestudents/apply, or request a printed copy from the Admissions Office, Trinity College, Dublin 2, e-mail admissions@tcd.ie, tel: +353 1 896 4444.

Trinity College will inform mature applicants of the outcome of their application before the end of May to allow successful applicants the maximum time possible to prepare for the start of the academic year 2014. Official offers to successful applicants are made through the CAO in early July. To secure your place you must return a formal acceptance notice to the CAO by the specified reply date.

An information seminar on preparing for college will take place for all successful mature applicants in July 2014. An orientation programme for all successful mature applicants will take place in September 2014.

For further information on studying in TCD as a mature student please contact the mature student officer, phone +353 1 896 1386, e-mail: mature.student.officer@tcd.ie or visit www.tcd.ie/maturestudents

Mature Student information seminar: see page 15.

Access initiatives

The Trinity Access Programmes (TAP) co-ordinates initiatives to facilitate increased participation at third-level of students whose social, economic and educational experiences have prevented them from realising their full academic potential. Through a variety of pre-entry outreach initiatives, TAP aims to promote positive attitudes to education with families and the community at large, and to increase the number of students who progress to third level education.

TAP offers a range of application routes to students of all ages and various post-entry supports including a writing resource centre, peer tutors, a laptop lending service and a designated study space equipped with IT resources.

Higher Education Access Route (HEAR)

The Higher Education Access Route (HEAR) is a third-level admissions scheme for school leavers (under 23 years of age), from socio-economically disadvantaged backgrounds. HEAR has been established by a number of Higher Education Institutions based on clear evidence that socio-economic disadvantage has a negative impact on educational achievement at school and progression to higher education.

School leavers who provide the necessary supporting financial documents relating to their socio-economic circumstances and meet the Irish Leaving Certificate minimum entry requirements and any course specific requirements are eligible to compete for a quota of places allocated to applicants on a reduced points basis in TCD.

Who should apply to HEAR?

HEAR is for school leavers (under 23 years old as of 1 January 2014). Mature and FETAC students have different admission routes, see pages 22 and 28.

How to apply to HEAR?

Step 1

Apply online to CAO by 17:15 on **1 February 2014**.

Step 2

Indicate that you wish to apply to HEAR and finalise all elements of your HEAR online application by 17:15 on **1 March 2014**.

Step 3

Submit relevant evidence in support of your application to arrive at CAO by 17:15 on **1 April 2014**.

HEAR applications can only be made online at www.cao.ie

More information on HEAR is available from your school Guidance Counsellor or Trinity Access Programmes. Information can also be found on: www.accesscollege.ie or www.cao.ie

Students who accept places in TCD through HEAR are offered a variety of academic and personal supports while studying at third level. Details of post-admission supports for HEAR entrants can also be found on page 12, and at www.accesscollege.ie and www.tcd.ie/Trinity_Access

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 in the greater Dublin area which are 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. FETAC and Leaving Certificate Applied qualifications are also considered.

Applicants for the Foundation Course for Young Adults may apply online from mid-November 2013. You may also apply for the University Access Course which Trinity College runs in partnership with Liberties College on this application form. The closing date for receipt of applications is February 7th 2014. Students are not required to apply to the Central Applications Office. Apply online, find out more or download application guidelines at www.tcd.ie/Trinity_Access/prospective/access/young.php Alternatively phone +353 1 896 2751.

TAP Foundation Course for Mature Students

This one-year course prepares mature students (EU students who are over twenty three years of age on 1 January of the proposed year of entry) for entry to undergraduate studies at Trinity College and other third-level institutions. There are no standard educational requirements but evidence of a particular interest in studying at university and strong personal motivation are essential. In addition, if English is not your first language you will be required to provide evidence of English language proficiency, see page 30.

Applicants for the Foundation Course for Mature Students may apply online from mid-November 2013. You may also apply for the University Access Courses which Trinity College runs in partnership with Pearse College and Plunket College on this application form. The closing date for receipt of applications is March 28th 2014. Students are not required to apply to the Central Applications Office. Apply online, find out more or download application guidelines at www.tcd.ie/Trinity_Access/prospective/access/mature.php Alternatively phone +353 1 896 2751.

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 2013 may give an indication of the level of achievement required for 2014. Applicants are advised that the competitive entry level may fluctuate (see the 2013 entry levels at www.tcd.ie/Admissions/undergraduate/requirements/entrypoints)

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

Accepting an offer

Applicants who wish to accept an offer of a place must return a formal acceptance notice to CAO, either online 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 College for one year. On receipt of a CAO Offer Notice:

- 1 Do NOT accept the offer.
- 2 Write or send an e-mail IMMEDIATELY to the Admissions Officer, Trinity College, Dublin 2 setting out the reason(s) for the request.
- 3 The letter must arrive in the Admissions Office at least two days before the 'Reply Date' shown on the Offer Notice. Trinity College will notify the applicant of the decision in writing. If the deferral is not granted, you may then accept the offer for the current year.
- 4 In order to take up the deferred place, the applicant must re-apply through the CAO by 1 February 2015 and the deferred course must appear as the first and only choice on this application.
- 5 After re-applying, the applicant must send their new CAO application number to The Admissions Office, Trinity College, Dublin 2, E-mail: admissions@tcd.ie.

Students who were permitted to defer their place will receive an offer of a place on the course in July of the following year.

A place may be deferred for one academic year only.

Transferring course and Advanced entry

Students seeking to transfer from a course in another third-level institution to the second or third year in Trinity College (Advanced entry) should consult: www.tcd.ie/Admissions/undergraduate/apply/transferred/from-third-level



Non-EU applicants

Non-EU applicants may apply online for admission to undergraduate courses. See www.tcd.ie/Admissions/undergraduate/apply/non-eu for full details and to make an application.

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

The Admissions Office, Trinity College, Dublin 2, Ireland.
Tel: +353 1 896 4444, Fax: +353 1 872 2853,
E-mail: nonEUdegree@tcd.ie,
www.tcd.ie/Admissions/undergraduate

The normal closing date for applications is 1 February 2014. Late applications may be considered for courses other than Medicine and Dental science.

In order to be considered for admission all applicants are required to satisfy the University minimum entry requirements (see page 28) and, where relevant, meet any course specific requirements.

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

Receiving an offer 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, Trinity College, Dublin 2 in writing prior to the deadline for acceptance of their offer.

One-year and one-term students

A limited number of 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 in Trinity College. While students may wish to be admitted for one term only, preference is given to those who wish to attend for a full academic year, particularly in the case of EU visiting students.

Applications may be made online, see www.tcd.ie/admissions/undergraduate/apply

Completed applications must be received by 1 March 2014.

Applying for accommodation

Applicants may only apply for accommodation in Trinity Hall after they have been offered a place on a course at Trinity College. See page 8 for further details.

Fees information

Students who accept an offer of a place via CAO will be contacted by the College Fees Office with regard to payment of all fees due.

EU Students eligible for inclusion in the Irish government's Free Fees Initiative will be liable for the Student Contribution (€2,500 in 2013), previously known as the Student Charge. In addition students are required to pay the Union of Students in Ireland (USI) membership levy (€8 in 2013) and the Student Sports Centre charge (€77 in 2013), but will not be liable for tuition fees if approved for the Free Fees scheme.

Students eligible for a local authority grant will be liable only for the Union of Students in Ireland (USI) membership levy (€8 in 2013) and the Student Sports Centre charge (€77 in 2013).

EU students who are not eligible for inclusion in the Free Fees scheme pay EU fees plus the other charges referred to above.

Students who are classified as non-EU students should pay the non-EU fee.

See www.tcd.ie/admissions/undergraduate/fees for further information.

Please note: The above information was correct at the time of publication. Any changes to this information after publication will be listed on the above website.

Applicants' appeals process

Applications are assessed on the basis of criteria listed in this publication and on the Admissions Office website. This is also the case in categorising students for the purposes of tuition fees.

Where an applicant appeals a decision the initial appeal is considered by the Admissions Officer. If the applicant wishes to appeal the matter further it is passed to the Senior Lecturer for consideration.



Feasibility study in admissions

This year Trinity is pioneering a feasibility study in admission to see if there is a better and fairer mechanism to identify and admit applicants who are enthusiastic and passionate about learning, motivated and suitable for their chosen courses, and with the academic ability and potential to be inspired by everything that college has to offer. The admissions scheme tested in this study will adopt a holistic approach that has worked successfully internationally, using a range of materials to make an assessment about the **academic ability** and **potential** of each applicant.

The new admissions route will be used to admit students on three courses – with ten places in **History (TR003)**, ten places in **Law (TR004)**, and five places in **Ancient and medieval history and culture (TR028)** filled using the new admissions routes. Applicants to any of the three courses involved in the study will have the option of using the new admissions route, and submitting some supplementary materials (in which case they will be eligible for all of the regular places on the course filled in the traditional way, **as well** as the places set aside for the study), or opting out of the study, in which case they will remain eligible for all of the places allocated in the traditional way. Students applying for two or more of the courses in the study will only have to submit the supplementary information once.

The feasibility study is being operated in partnership with the Central Applications Office (CAO) and all applications will be made completely **anonymous** before evaluation, to ensure the process is free from any external influences.

The three scales (or modalities) which will be used to assess applicants in the study are as follows:

- (a) Leaving Certificate results.
- (b) Relative Performance Rank (RPR) – the performance of the applicant relative to other applicants from their school. This scale looks at the rank of the applicant compared to every other applicant from their school who has applied to any course, in any college, through the CAO.
- (c) Personal and Contextual Data – provided via supplementary materials submitted by the applicant.

Names of applicants, any identifying information, and the names of schools attended, will be made completely anonymous before being evaluated by the review panels. Applicants will be required to provide supplementary information requested in a Trinity Application Form. This information must be submitted online through the CAO before 1 February 2014. Applicants are asked to submit an honest piece of self-reflection, discussing what they would like to study, and why, and this is what will be evaluated. Grammar, vocabulary, or writing style will not be scored.



The feasibility study is an attempt to inform broader educational change by providing options to assist in the development of national policy. The study is an attempt to see whether, on a small scale and in a strictly controlled way, it might be possible to admit students using a range of assessments (including the Leaving Certificate), with the results published and shared throughout the sector. It recognises the importance of having a Leaving Certificate examination that is fit-for-purpose and supports the reforms that are currently underway at second-level to ensure a more positive educational experience. It also recognises and values the great work and commitment of the teachers at primary and second-level throughout Ireland.

The new admissions route tested here seeks to complement the role of the Leaving Certificate and the teaching community, by working with the Central Applications Office (CAO) to examine whether some approaches which have succeeded internationally might also work in an Irish context.

Further details are available at: www.tcd.ie/undergraduate-studies

Admission of students from Northern Ireland

When admitting students, Trinity College treats equally all Leaving Certificate and A-Level students on the island of Ireland in light of their status under Article 2 of the Constitution of Ireland. This policy reflects Trinity's historic role – going back to 1592 – as a university for the whole island of Ireland, and also recognises the unique role it has played in bringing together different traditions over the centuries. Trinity attracts talented students from every county in Ireland, as well as from around the world, and the diversity of the student population is one of the key things that makes it such a special place to study. Recently we asked some of our students to tell their own stories about coming to study at Trinity, and they have made short videos about it for Trinity Explore (www.tcd.ie/explore).

Our Student Ambassador for Northern Ireland is Dónal McKeating, a second-year Maths and Economics student, and we also have student ambassadors from every county in Ireland. Dónal has the following message for anyone from Northern Ireland thinking of studying at Trinity:

'I was one of only three people in a year of nearly 200 at my school that decided to come down to Trinity. I was immediately blown away by the incredible, vibrant atmosphere of the College. I have had an absolutely amazing two years at Trinity. I knew absolutely no-one, so I decided to get involved in College societies as much as possible from the get go, and it was one of the best decisions I have ever made. Societies are a major part of the Trinity Experience, and offer a vast array of opportunities to students of all interests. I became heavily involved with Players, the College drama society. I acted, produced and even wrote a play in my 1st year and was lucky enough to be elected onto the committee and due to this was awarded the TCD Fresher of the Year award in March 2012. In addition to my interest in societies I have written extensively for the College satirical publication The Piranha, which has been a lot of fun and very rewarding, and I am now lucky enough to be Chair of Trinity's Central Societies Committee; which is in charge of monitoring and funding Trinity's 118 student societies. The incredible opportunities this College offers never cease to amaze me: whether it is through academic, sporting, or student society events, or simply by hosting the breathtaking Trinity Ball. Coming down here was the best decision I ever made and I would recommend every other student from Northern Ireland to do the same!'



Dónal McKeating, Student Ambassador for Northern Ireland

Speaking to the TCD Association of Northern Ireland in Belfast on 9 November 2012, the Provost, Dr. Patrick Prendergast, noted some of the deep connections, from Isaac Butt and the physicist Thomas Andrews, in the nineteenth century, to a range of distinguished people in the twentieth, including the judges, Sir James Andrews, Lord Chief Justice of Northern Ireland, and Sir Donnell Deeny of the High Court; the poets Michael Longley and Derek Mahon; the journalist and BBC governor Lucy Faulkner, wife of the Prime Minister Brian Faulkner; the great Denis Burkitt, who gave his name to the childhood cancer Burkitt's lymphoma; and the world-renowned historian R.B. McDowell. The Provost noted that, 'By bringing together a community of scholars and staff of all religions, and none; of all political beliefs and none; we help challenge fixed ideas and generate new ideas. One of my predecessors as Provost called Trinity "a small republic of letters", and we take pride in living up to that ideal. A rich learning environment means diversity in the College.'

Students applying to Trinity from Northern Ireland should do so through the CAO, the Irish equivalent of UCAS, at www.cao.ie. An applicant's points score will be calculated on the basis of either of the following: their best 4 A-level subjects from one academic year, or their best 3 A-level subjects from one academic year plus one AS level subject in a different subject from the same or the preceding year. See pages 21 and 29 for application deadlines, admission requirements, and the scoring scheme.

Admission Requirements 2014

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

- (i) meet the minimum entry requirements (see below).
- (ii) satisfy course specific requirements (where applicable), see pages 31-34.
- (iii) where there is competition for places, have good enough examination results to be included among those to whom offers are made (see the Leaving Certificate scoring system or Advanced GCE (A-level) scoring system, below).

Minimum entry points for recent years are available at: www.tcd.ie/Admissions/undergraduate/requirements/entrypoints

Minimum entry requirements: Irish Leaving Certificate

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

- Present six subjects, three of which must be at grade C or above on higher Leaving Certificate papers or at least grade C in the University matriculation examination (see page 30).

The six subjects above must include:

- A pass in English.
- A pass in mathematics (or foundation-level mathematics (see note 2)) and a pass in a language other than English OR
- A pass in Latin and a pass in a subject other than a language.

Notes:

- 1 A pass means grade D or above on ordinary or higher papers in the Leaving Certificate and grade D or above in the University matriculation examination.
- 2 Mathematics at foundation-level is acceptable for minimum entry requirements only, for all courses except nursing or midwifery courses. Irish at foundation-level is not acceptable for minimum entry requirements, course requirements or for scoring purposes.
- 3 Students may combine grades achieved in different sittings of their Leaving Certificate/Matriculation examinations for the purpose of satisfying minimum entry and/or course requirements, but not for the purposes of scoring. This is not permitted for Medicine – see note 3 on page 35.
- 4 Combinations of Leaving Certificate subjects not permitted:
 - Physics/chemistry may not be presented with physics or chemistry.
 - Biology and agricultural science may not be presented as two of the six subjects required for minimum entry requirements, and they may not be presented together to satisfy course specific requirements. However, both may be used for scoring purposes.

- Art and music may not be offered as two of the three higher Leaving Certificate grades for minimum entry requirements 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

■ Bonus points for higher level Mathematics

All students presenting HD3 or above in higher level Mathematics will have 25 points added to their score for Mathematics. The bonus points will only be relevant where Mathematics is scored as one of a student's six best subjects for points purposes.

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 College matriculation examination of the same year for scoring purposes.

Leaving Certificate Vocational Programme Link Modules are accepted for scoring purposes only and are awarded the following points: Distinction 70, Merit 50, Pass 30.

The minimum entry levels (points) for recent years are available at www.tcd.ie/Admissions/undergraduate/requirements/entrypoints

Entry Route for students presenting FETAC qualifications

There is an entry route to a number of degree programmes in Trinity College for applicants presenting appropriate FETAC (level 5) qualifications. Applicants presenting distinctions in five modules can be considered for admission to Science (TR071); General nursing (TR091 & TR093); Mental health nursing (TR095); Intellectual disability nursing (TR097) and Midwifery (TR913). Further details may be found at www.tcd.ie/Admissions/undergraduate/requirements/matriculation/fetac

Minimum entry requirements: GCSE/Advanced GCE (A-level)

To be considered for admission to the University you must:

- Present six subjects at grade C or above on GCSE or Advanced Subsidiary GCE (AS) papers. Two of these subjects must be at grade C or above on Advanced GCE (A-level) papers.

The six subjects above must include:

- A pass in English.
AND
 - 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.

Notes:

- 1 A pass means grade C or above on GCSE or Advanced Subsidiary GCE (AS) papers.
- 2 Students may combine grades achieved in different sittings of their Advanced GCE (A-level) examinations for the purpose of satisfying minimum entry and/or course requirements, but not for the purposes of scoring. This is not permitted for Medicine – see note 3 on page 35.
- 3 Acceptable subjects:
 - Applied A-level, Vocational Advanced Subsidiary, Vocational A-level, National Vocational and Key Skills qualifications are not accepted for minimum entry requirements or scoring purposes.
 - GCSE/Advanced GCE (A-level) subjects set by recognised examination boards are, in principle, acceptable for consideration with the following exceptions.
 - Physical education, General studies and Media studies are not acceptable.
 - Applicants who require advice about subject eligibility should contact the Admissions Office.
- 4 Combinations of A-level subjects not permitted for minimum entry requirements or scoring purposes:
 - 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.
- 5 Art and Music may not be offered as the two Advanced GCE (A-level) grades for minimum entry requirements but both may be used for scoring purposes.

Advanced GCE (A-level) scoring system for exams taken from 2010 to 2014

	AS	A2
A*	–	150
A	65	135 [^]
B	60	120
C	50	100
D	35	75
E	20	40

Bonus points for Mathematics:

All students presenting Grade E or above in one of A-Level Mathematics, Further Mathematics or Pure Mathematics will have 25 points added to their score for that subject. The bonus points will only be relevant where that subject is scored as one of a student's four best subjects for points purposes.

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

- 1 their best 4 GCE Advanced level (A2) subjects from one academic year
OR
- 2 their best 3 GCE Advanced level (A2) subjects from one academic year plus one Advanced Subsidiary level (AS) in a different subject from the same or the preceding academic year only.

Students may not combine grades achieved in different sittings of their GCE Advanced level (A2) examinations for the purpose of scoring. However, examinations taken in January and June of the same year are counted as a single sitting.

The minimum entry levels (points) for recent years are available at www.tcd.ie/Admissions/undergraduate/requirements/entrypoints

Notes:

- [^] Applicants presenting A-level examinations from pre-2010 will be scored based on the above scheme, with the exception of the pre-2010 A grade, which will be awarded 145 points.
- Cambridge Pre-U: Principle subjects will be accepted as alternatives to A-Levels in meeting general entry requirements. The scoring scheme for Principle Subjects, Global Perspectives, and Shorts Courses results is available at www.tcd.ie/Admissions/undergraduate/requirements/matriculation/gcse

Allocation of places

Trinity College treats equally all Leaving Certificate and A-Level students on the island of Ireland in light of their status under Article 2 of the Constitution of Ireland. Trinity College will allocate fixed points to A-Level grades for the purpose of determining a student's ranking, allocating places in proportion with current demographic factors.

For all other applicants, in the first instance Trinity College allocates ranges of CAO points to A-Level grades (and other EU grading systems) in order that these applications can be compared with Leaving Certificate applications. Once this

proportion is determined, places on the course in question are offered to applicants coming from each respective examination system group on the basis of ranking within that group.

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



Minimum entry requirements: Other EU and Non-EU countries

Applicants who are presenting a second-level qualification other than Leaving Certificate or Advanced GCE (A-level) should consult the Trinity College website (www.tcd.ie/Admissions/undergraduate/requirements/matriculation/other) or contact the Admissions Office (see pages 21 and 25) for details of the relevant minimum entry and course requirements.

English language requirement

All applicants must present an English language qualification. Accepted/permitted qualifications are:

- 1 Irish Leaving Certificate:** a grade D3 or better in ordinary level English.
- 2 GCSE:** a grade C or better in English Language.
- 3 US High School:** a grade C in English taken in final year.
- 4 TOEFL**
 - Paper-based 570 (with a TWE score of 4.5)
 - Computer-based 233 (with a score of 4.5 in essay)
 - Internet-based 90 (with a written score of 21)
- 5 Cambridge Proficiency** Grade C
- 6 Cambridge Advanced** Grade A
- 7 IELTS** (academic version) 6.5 (no individual band below 6)
 - For Dental courses: IELTS (academic version) 7 (no individual band below 7)
 - For Clinical speech and language studies: IELTS (academic version) 7 (no individual band below 7)
- 8 Pearson Test of English** (Academic) – PTE Academic: a minimum score of 63 (with no section score below 59)

Note that examination results are only valid for 2 years.

Age requirement

Applicants seeking admission in 2014 must have a date of birth before 15 January 1998.

University matriculation examination

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

The closing date for application for the examination is 1 March. Application forms and a syllabus can be obtained from the Admissions Office, Trinity College, Dublin 2, Tel: 01 896 4444, E-mail: admissions@tcd.ie

Additional requirements

Garda vetting

Students on courses with clinical or other professional placements may be required to undergo Garda vetting procedures prior to commencing placements. If, as a result of the outcome of the Garda vetting procedures, a student is deemed unsuitable to attend clinical or other professional placement, he/she may be required to withdraw from his/her course. Students who have resided outside Ireland for a consecutive period of 6 months or more will be required to provide police clearance documentation from the country in which they resided at the time of registration.

Garda vetting forms will be distributed (as part of the student orientation information) to students who have been offered a place in Trinity College. The completed forms must be returned to the Admissions Office prior to registration.

Fitness to practice

Professional courses demand that certain core competencies are met by students in order to graduate and practice professionally after qualification. College has special responsibility to ensure that all students admitted to all professional programmes will be eligible for registration by the relevant professional body upon graduation. It is important to us that our students are able to fulfil the rigorous demands of professional courses and are fit to practice.

Precautions against infectious diseases

Offers of admission to a number of health sciences courses are made subject to certain vaccination requirements and/or certain negative test results. See page 199 for further details.

Course requirements 2014: Two-Subject Moderatorship (TSM/TR001) – Level 8 (Honors Degrees)

The two-subject moderatorship (TSM) is a joint honor programme. Students select two subjects from the list below (for permitted combinations see next page) and pursue both to honors degree level. Usually both subjects are studied for three years and one subject only is studied in the fourth and final year (see page 40). An honors degree is awarded in both subjects. The minimum entry points for each TSM combination are available at: www.tcd.ie/Admissions/undergraduate/requirements/entrypoints

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

	Subject Name	Specific Subjects Required (reference is to higher level Leaving Certificate or Advanced GCE (A-level) grades)	Available Places in 2013	Minimum Points Range 2012**	Page
AH	Ancient history and archaeology	none	23	390*-545	48
CC	Classical civilisation	none	29	405-555	50
DR	Drama studies	see note 12	24	515-540*	59
EI	Early Irish	C3 in Irish	10	460-555*	82
EC	Economics	see note 1	43	475*-580*	63
EN	English literature	C3 in English	85	535-585	65
FS	Film studies	none	30	410-540	69
FR	French	C1 in French	84	400*-580*	71
GG	Geography‡	none	45	415-580	73
GE	German	C1 in German	32	420-555	74
GK	Greek	C3 in Greek or C3 in a language excluding English	8	405-555	51
HS	History	none	40	530*-555*	76
AR	History of art and architecture	none	40	425-555*	81
IT	Italian	C3 in Italian or C3 in a language excluding English	30	425-580	86
JS	Jewish and Islamic civilisations	none	10	405-580	87
LT	Latin	C3 in Latin or C3 in a language excluding English	10	435-540	53
MT	Mathematics	B3 in mathematics	25	540-585	166
MI	Modern Irish	C3 in Irish	30	410-545	82
MU	Music	see note 5	20	535-585	97
PH	Philosophy	none	43	440-585	100
PS	Psychology	none	17	580-585	106
RU	Russian	C3 in a language excluding English	36	430*-555	111
SC	Sociology	none	59	415-580	114
SP	Spanish	C3 in a language excluding English	41	475-540	117
BT	World religions and theology	none	24	390*-580*	109

Specific subjects required for other EU countries: See the information above for the Irish Leaving Certificate and compare it with the equivalent grades for your country at www.tcd.ie/Admissions/undergraduate/requirements/matriculation/other

‡ Geography may also be read as part of a moderatorship course in science – TR071. See page 143 for course specific requirements for Science.

* Not all applicants at this level were offered places.

** The minimum points required depend on which two subjects are chosen. A grid displaying the minimum points required in recent years for all combinations of subjects is available at www.tcd.ie/Admissions/undergraduate/requirements/entrypoints.

Two-Subject Moderatorship (TSM/TR001): Permitted combinations and CAO course codes

TR001 must NOT be entered on the 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 application form, e.g. TR289 for French and German.

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

Note: Students are not permitted to commence two new languages, see page 40.

	AH	AR	BT	CC	DR	EC	EI	EN	FR	FS	GE	GG	GK	HS	IT	JS	LT	MI	MT	MU	PH	PS	RU	SC	SP
AH	–	113	102	–	–	–	–	106	107	–	–	–	110	112	115	547	116	–	–	–	–	–	121	–	123
AR	113	–	143	173	485	–	486	263	293	–	353	–	–	443	475	555	476	–	–	478	479	–	–	482	483
BT	102	143	–	133	–	–	156	136	137	310	139	–	140	142	–	–	146	144	–	–	149	150	151	152	153
CC	–	173	133	–	185	–	–	166	167	–	–	–	170	172	175	548	176	174	–	–	179	–	181	–	183
DR	–	485	–	185	–	–	–	276	306	311	366	–	395	–	545	–	575	515	–	635	–	–	725	755	785
EC	–	–	–	–	–	–	–	–	–	–	199	198	–	202	–	–	–	–	207	–	209	210	211	212	213
EI	–	486	156	–	–	–	–	–	–	–	–	–	–	456	–	549	576	–	–	–	–	–	–	–	–
EN	106	263	136	166	276	–	–	–	257	312	259	–	260	262	265	550	266	264	267	268	269	270	271	272	273
FR	107	293	137	167	306	–	–	257	–	313	289	–	–	292	295	551	296	294	297	298	299	300	301	302	303
FS	–	–	310	–	311	–	–	312	313	–	314	–	–	–	316	319	–	315	–	320	–	–	317	–	318
GE	–	353	139	–	366	199	–	259	289	314	–	321	–	352	355	552	–	354	357	–	359	–	361	362	363
GG	–	–	–	–	–	198	–	–	–	–	–	321	–	–	–	–	–	–	327	–	329	330	–	332	–
GK	110	–	140	170	395	–	–	260	–	–	–	–	–	382	385	553	–	–	–	–	389	–	391	–	393
HS	112	443	142	172	–	202	456	262	292	–	352	322	382	–	445	554	446	444	–	448	449	–	451	452	453
IT	115	475	–	175	545	–	–	265	295	316	355	–	385	445	–	–	536	505	–	–	539	540	541	542	543
JS	547	555	–	548	–	–	549	550	551	319	552	–	553	554	–	–	557	556	–	–	558	559	560	561	562
LT	116	476	146	176	575	–	576	266	296	–	–	–	–	446	536	557	–	506	–	–	569	–	571	–	573
MI	–	–	144	174	515	–	–	264	294	315	354	–	–	444	505	556	506	–	–	508	509	–	511	512	513
MT	–	–	–	–	–	207	–	267	297	–	357	327	–	–	–	–	–	–	–	598	599	600	–	–	–
MU	–	478	–	–	635	–	–	268	298	320	–	–	–	448	–	–	–	508	598	–	629	630	–	–	–
PH	–	479	149	179	–	209	–	269	299	–	359	329	389	449	539	558	569	509	599	629	–	660	661	662	–
PS	–	–	150	–	–	210	–	270	300	–	–	330	–	–	540	559	–	–	600	630	660	–	–	692	–
RU	121	–	151	181	725	211	–	271	301	317	361	–	391	451	541	560	571	511	–	–	661	–	–	–	723
SC	–	482	152	–	755	212	–	272	302	–	362	332	–	452	542	561	–	512	–	–	662	692	–	–	753
SP	123	483	153	183	785	213	–	273	303	318	363	–	393	453	543	562	573	513	–	–	–	–	723	753	–

AH: Ancient history and archaeology
CC: Classical civilisation
EI: Early Irish
FS: Film studies
GK: Greek
JS: Jewish and Islamic civilisations
MT: Mathematics
PS: Psychology
SP: Spanish

AR: History of art and architecture
DR: Drama studies
EN: English literature
GE: German
HS: History
LT: Latin
MU: Music
RU: Russian

BT: World religions and theology
EC: Economics
FR: French
GG: Geography
IT: Italian
MI: Modern Irish
PH: Philosophy
SC: Sociology

Course requirements 2014: Level 8 (Honors Degrees)

Course Code	Name	Specific Subjects Required (reference is to higher level Leaving Certificate or Advanced GCE (A-level) grades)	Available Places in 2013	Minimum points in 2012**	Page
TR002	Music	see note 5	15	420	97
TR003	History	none	38	485	76
TR004	Law	none	90	525*	88
TR005	Philosophy	none	20	455	100
TR006	Psychology	none	31	565*	106
TR007	Clinical speech and language studies	see note 4	34	535*	54
TR008	World religions and theology	none	15	365	109
TR009	Music education	see note 5	10	525*	99
TR012	History and political science	none	24	515	79
TR015	Philosophy, political science, economics and sociology	see note 1	34	535*	102
TR016	Deaf studies	See note 20	20	395*	57
TR017	Law and business	see note 1	25	565	93
TR018	Law and French	C1 in French	15	565	91
TR019	Law and German	C1 in German	15	525	91
TR020	Law and political science	none	20	575	95
TR021	Classics	C3 in Greek or Latin	15	390	47
TR022	Early and modern Irish	C3 in Irish	15	375	82
TR023	English studies	C3 in English	40	510*	65
TR024	European studies	see note 8	45	545	67
TR025	Drama and theatre studies	see note 12	16	510	59
TR027	Irish studies	See note 21	20	400*	84
TR028	Ancient and medieval history and culture	none	15	405	78
TR029	Political science and geography	none	20	435	105
TR030	Catholic theological studies	none	15	n/a	108
TR031	Mathematics	B3 in mathematics	30	535	166
TR032	Engineering	C3 in mathematics	165	465	129
TR033 [‡]	Computer science	C3 in mathematics	80	450	121
TR034 [‡]	Management science and information systems studies	C3 in mathematics	27	455	126
TR035 [‡]	Theoretical physics	B3 in mathematics and B3 in physics	40	540	170
TR038 [‡]	Engineering with management	C3 in mathematics	20	435	140
TR039	Computer science and language	see note 22	15	490	124
TR051	Medicine	see notes 3A and 3B	123	746*	182
TR052	Dental science	see note 3A	32	590*	176
TR053	Physiotherapy	see notes 1 and 6	40	550	195
TR054	Occupational therapy	see note 7	40	510*	191
TR055	Radiation therapy	see note 14	30	535*	196
TR056	Human health and disease	see note 18	35	540*	179
TR071 [‡]	Science	see notes 1 and 2	340	500	143
TR072	Pharmacy	see notes 1 and 9	75	565*	193

Course Code	Name	Specific Subjects Required (reference is to higher level Leaving Certificate or Advanced GCE (A-level) grades)	Available Places in 2013	Minimum points in 2012**	Page
TR073‡	Human genetics	see notes 1 and 10	15	560*	164
TR074‡	Chemistry with molecular modelling	see note 11	5	490	162
TR075‡	Medicinal chemistry	see notes 1 and 2	28	535*	167
TR076‡	Nanoscience, physics and chemistry of advanced materials	see note 13	15	515*	169
TR077	Earth sciences	see notes 1 and 2	14	480	163
TR081	Business, economic and social studies	see note 1	236	490*	41
TR082	Computer science and business	see note 19	30	465	122
TR083	Sociology and social policy	none	28	415	114
TR084	Social studies (Social work)	none	45	465	112
TR085	Business studies and French	C1 in French and see note 1	15	515	44
TR086	Business studies and German	C1 in German and see note 1	15	480*	44
TR087	Business studies and Russian	C3 in a language excluding English and see note 1	7	475	44
TR089	Business studies and Polish	C3 in a language excluding English and see note 1	5	415	44
TR090	Business studies and Spanish	C1 in Spanish and see note 1	10	505	44
TR091	General nursing	See note 15	92	420	187
TR092	General nursing (mature applicants)	See note 17	14	227	187
TR093	General nursing – Adelaide School of Nursing	See notes 15 and 16	29	400*	187
TR094	General nursing (mature applicants) – Adelaide School of Nursing	See notes 16 and 17	4	216	187
TR095	Mental health nursing	See note 15	20	395*	187
TR096	Mental health nursing (mature applicants)	See note 17	25	212*	187
TR097	Intellectual disability nursing	See note 15	17	395	187
TR098	Intellectual disability nursing (mature applicants)	See note 17	13	203	187
TR911	Children's and general integrated nursing	See note 15	15	490*	187
TR912	Children's and general integrated nursing (mature applicants)	See note 17	5	230*	187
TR913	Midwifery	See note 15	25	460*	184
TR914	Midwifery (mature applicants)	See note 17	15	233*	184

Specific subjects required for other EU countries: See the information above for the Irish Leaving Certificate and compare it with the equivalent grades for your country at www.tcd.ie/Admissions/undergraduate/requirements/matriculation/other



Ireland's EU Structural Funds Programmes
Co-funded by the Irish Government and the European Union



Courses are funded by the Irish Government under the National Development Plan.

‡ These courses are co-funded by the Irish Government and the European Union under the European Social Fund.

* Not all applicants at this level were offered places.

** Note that there are different minimum entry levels for A-level applicants for some courses, see the minimum entry points at www.tcd.ie/Admissions/undergraduate/requirements/entrypoints

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.
- 3A 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.
- 3B This is a restricted entry course, therefore, applications must be submitted to the CAO by 1 February of the proposed year of entry. Applicants must achieve a minimum of 480 points and meet the minimum entry and course specific requirements in the same sitting* of the Leaving Certificate examination. In addition, all applicants will be required to sit the admissions test (HPAT – Ireland) which is scheduled for 1 March 2014. Applicants must register for the test at www.hpat-ireland.acer.edu.au by 20 January 2014. Further details on the selection criteria are available at www.tcd.ie/courses or from the Admissions Office: +353 1 896 4444. Applicants should note that application for Medicine must be made online at www.cao.ie
* A-level applicants must satisfy minimum entry and course specific requirements within three consecutive years, e.g. GCSE (2012), AS (2013), A-levels (2014).
- 4 A mathematics requirement of grade D on the ordinary or higher Leaving Certificate paper or grade C at GCSE level. A grade C at higher level in one of English, French, German, Irish, Italian, Russian, Spanish and a grade C at higher level in one of mathematics, applied mathematics, physics, chemistry, biology, physics/chemistry, agricultural science. If you are presenting Advanced GCE (A-levels), a grade C at A-level is required in one of English, French, German, Irish, Italian, Russian, Spanish and a grade B at GCSE level in one of physics, chemistry, biology, mathematics; or a grade C at A-level in one of physics, chemistry, biology, mathematics and a grade B at GCSE level in one of English, French, German, Irish, Italian, Russian, Spanish.
- 5 This is a restricted entry course, therefore, applications must be submitted to the CAO by 1 February of the proposed year of entry. You will be called for an entrance test on 29 March 2014 (provisional date). This will include a simple harmony paper, an ear test, a paper on general musical knowledge and background and an essay paper (TR009 only). Some applicants will be called for interview (and in the case of TR009 applicants, further tests) in late April/early May when the final selections will be made.
- 6 Two higher level grade Cs from the following subjects: physics, chemistry, biology, physics/chemistry, mathematics, agricultural science. Physics/chemistry may not be presented with physics or chemistry. Agricultural science may not be presented with biology.
- 7 One higher level grade C from the following subjects: physics, chemistry, biology, physics/chemistry, agricultural science.
- 8 Students entering this programme will study two languages from French, German, Italian, Polish, Russian and Spanish. Italian, Polish, Russian and Spanish are available from beginner level. No student may study more than one language as a beginner. Students accepted into 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 of French, German, Italian, Polish, Russian, Spanish (C1 in the case of French and German, and C2 in the case of Spanish if non-beginner). Students who have only one language (other than English or Irish) may also be admitted, subject to the above regulations, if they achieve a higher level grade B in the language in the Leaving Certificate, or equivalent.
- 9 A higher level grade C in chemistry and a higher level grade C in one of physics, biology, mathematics, geology, geography, applied mathematics and agricultural science.
- 10 Two higher level grade Cs from the following subjects: biology, chemistry, physics, physics/chemistry, mathematics and applied mathematics. Physics/chemistry may not be presented with chemistry or physics. Mathematics may not be presented with applied mathematics.
- 11 A higher level grade C in mathematics and a higher level grade C in one of physics, chemistry, physics/chemistry or biology.
- 12 This is a restricted entry course, therefore, applications must be submitted to the CAO by 1 February of the proposed year of entry. If you indicate Drama studies or Drama and theatre studies as a choice of subject, you will be sent a questionnaire to complete in March. On the basis of the completed questionnaire some applicants will be called to attend a workshop and interview (during April/May) before final selections are made.
- 13 Two higher level grade Cs from the following subjects: physics, chemistry, biology, physics/chemistry, applied mathematics, mathematics. Leaving certificate applicants must present mathematics at ordinary level grade A2 or at higher level grade C3, while A-level applicants must present mathematics at Grade A at GCSE level or Grade C at A-level. Physics/chemistry may not be presented with chemistry or physics. Mathematics may not be presented with 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.

Applicants who have previously been unsuccessful (academic and/or placement) in any Nursing or Midwifery programme or have any issues which would affect their registration with An Bord Altranais will only be considered for re-entry to Nursing or Midwifery on a case-by-case appeal basis to the relevant Programme Board. Such applicants should make their case in writing to the Admissions Officer and include any relevant details of extenuating circumstances.

- 16** This is a restricted entry course; therefore, applications must be submitted to the CAO by 1 February of the proposed year of entry. The Adelaide Hospital Society, which is a voluntary charitable organisation, nominates suitable applicants each year to the Adelaide School of Nursing. In selecting applicants, the Society has regard to its particular obligation to applicants from the Protestant community and also to members of inter-church families. Applicants will be sent an additional application form in mid-March, to be returned to the Adelaide Hospital Society. On the basis of the completed application form, a list of eligible applicants will be selected. Places on this course will then be allocated on the basis of Leaving Certificate points/mature students' written assessment scores.

- 17** This is a restricted entry course, therefore, applications must be received by the CAO by 1 February of the proposed year of entry. Mature applicants to Midwifery or Nursing are NOT required to submit a mature-student supplementary application form to Trinity College. If you indicate Midwifery or Nursing as a mature student, the Nursing Career Centre will invite you to a written assessment.

Applicants who have previously been unsuccessful (academic and/or placement) in any Nursing or Midwifery programme or have any issues which would affect their registration with An Bord Altranais will only be considered for re-entry to Nursing or Midwifery on a case-by-case appeal basis to the relevant Programme Board. Such applicants should make their case in writing to the Admissions Officer and include any relevant details of extenuating circumstances.

- 18** A higher level grade C in biology and a higher level grade C in one of physics, chemistry or physics/chemistry.
- 19** A higher level grade C3 or an ordinary level grade A2 in mathematics.
- 20** A higher level grade C in English and grade D at ordinary or higher level in a language other than English.
- 21** Applicants who wish to choose Strand B (see page 84) must attain at least grade HC3 in Leaving Certificate Irish or grade C in A-level Irish. There are no course specific requirements for Strand A.
- 22** A higher level grade C3 in mathematics. Also, a grade C1 at higher level in French or German if selecting French or German, or a grade B3 at higher level in Irish if selecting Irish.

Course requirements 2014: Ordinary degree and diploma courses

Course Code	Name	Specific subjects required	Available Places in 2013	Minimum points in 2012	Page
TR801	Dental nursing (diploma)	See notes A and C	25	380*	174
TR802	Dental hygiene (diploma)	See note B and C + Restricted entry	8	435*	173
TR803	Dental technology (ordinary degree)	See notes A and C + Restricted entry	6	390	178

Notes

- A** Applicants are required to present six subjects, including English, mathematics and one of physics, chemistry, biology, physics/chemistry or agricultural science.
- 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 grade D3 on ordinary Leaving Certificate papers.
- B** Applicants are required to present six subjects, including English, mathematics and one of physics, chemistry, biology, physics/chemistry or agricultural science.
- 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 grade D3 on ordinary Leaving Certificate papers.
- C** Applications may also be considered from mature applicants who do not satisfy the academic entry requirements but can demonstrate appropriate experience relevant to the course.

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



READ THIS PROSPECTUS

ON A TABLET DEVICE

Use the QR code below, or go to www.tcd.ie/Admissions/undergraduate/assets/pdf/TCD_Prospectus_2014.pdf and open the .pdf version of this prospectus.



Arts, Humanities and Social Sciences



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- 41 Business, economic and social studies (BESS)
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- 47 Classics
- 48 Classics: Ancient history and archaeology (TSM)
- 50 Classics: Classical civilisation (TSM)
- 51 Classics: Greek (TSM)
- 53 Classics: Latin (TSM)
- 54 Clinical speech and language studies
- 124 Computer science and language
- 57 Deaf studies
- 59 Drama and theatre studies
- 59 Drama studies (TSM)
- 61 Drama: Acting – The Lir (non-CAO)
- 62 Drama: Stage management and technical theatre – The Lir (non-CAO)
- 63 Economics (TSM)
- 65 English studies
- 65 English literature (TSM)
- 67 European studies
- 69 Film studies (TSM)
- 71 French (TSM)
- 73 Geography (TSM)
- 74 German (TSM)
- 76 History
- 76 History (TSM)
- 78 History: Ancient and medieval history and culture
- 79 History and political science
- 81 History of art and architecture (TSM)
- 82 Irish: Early and modern Irish
- 82 Irish: Early Irish (TSM)
- 82 Irish: Modern Irish (TSM)
- 84 Irish studies
- 86 Italian (TSM)
- 87 Jewish and Islamic civilisations (TSM)
- 88 Law
- 91 Law with a language (French or German)
- 93 Law and business
- 95 Law and political science
- 166 Mathematics (TSM)
- 97 Music
- 97 Music (TSM)
- 99 Music education
- 100 Philosophy
- 100 Philosophy (TSM)
- 102 Philosophy, political science, economics and sociology
- 104 Political science
- 105 Political science and geography
- 106 Psychology
- 106 Psychology (TSM)
- 108 Religions: Catholic theological studies
- 109 Religions: World religions and theology
- 109 Religions: World religions and theology (TSM)
- 111 Russian (TSM)
- 112 Social studies (Social work)
- 114 Sociology (TSM)
- 114 Sociology and social policy
- 117 Spanish (TSM)

* TSM (Two Subject Moderatorship) is a joint honors degree, choose two TSM subjects and study both to honors degree level.

Arts courses at Trinity College – an overview

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

Some of the arts courses offered in Trinity College have a strong vocational element, for example Music education, Drama studies, and Law. Many arts courses do not have a vocational focus but provide an excellent preparation for a wide variety of careers.

All are designed to develop high levels of analytic and communication skills: the ability to understand unfamiliar ideas and to look at familiar ideas in a new light, to work out your own ideas and express them lucidly and convincingly are skills you will acquire through an arts course.

Three types of Arts courses:

Single honor courses

In a single honor course one subject is studied almost exclusively for the four years; however many subjects offer students a wide range of module choices, particularly in the third and fourth years.

Joint honor two-subject moderatorship (TSM) programmes

TSM is a joint honors degree that allows students to choose two subjects (from a list of 25) and study both to honors degree level. See the next page for further details.

Specially designed 'packages' of different subjects

These may be organised around a particular theme, as in History and political science, or European studies; or around the development of a particular skill, such as Music education, or Law and a language.

Arts: what comes after graduation?

A high proportion of vacancies for new graduates are open to students of any discipline and while an arts degree may not lead directly to one profession, arts graduates can be found in everything from accountancy to voluntary organisations (see the individual course entries for further details about career opportunities). The arts graduate has no shortage of choices! Details of first destinations for graduates of all disciplines are available on the Careers Advisory Service website: www.tcd.ie/Careers/students



Two-Subject Moderatorship (TSM)

TSM is a joint honors degree that allows students to choose two subjects (from a list of 25, see below) and study both to honors degree level. The two subjects are taught separately and the overall workload is similar to that of a single honors degree. In most combinations both subjects are studied equally for the first three years and one subject only is studied in the fourth year.

Each combination of two subjects has a different CAO course code (see page 32).

Minimum entry points for each TSM combination: see www.tcd.ie/Admissions/undergraduate/requirements/entrypoints

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

Possible combinations

Possible combinations of subjects for TSM are indicated by ✓ or * in the grid below.

✓ indicates combinations in which both subjects are studied for three years, and one subject only is studied in the fourth year (both subjects are studied to honors degree level).

* indicates combinations in which students may choose to study:

- both subjects for three years and one subject only in the fourth year,
- OR
- both subjects for four years.

	Ancient history and archaeology	Classical civilisation	Drama studies	Early Irish	Economics	English literature	Film studies	French	Geography	German	Greek	History	History of art & architecture	Italian	Jewish and Islamic civilisations	Latin	Mathematics	Modern Irish	Music	Philosophy	Psychology	Russian	Sociology	Spanish	World religions and theology
Ancient history and archaeology					✓	✓			✓	✓	✓	✓	✓	✓	✓						✓	✓	✓	✓	✓
Classical civilisation			✓		✓	✓				✓	✓	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓
Drama studies	✓				✓	✓	✓		✓	✓		✓	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓
Early Irish											✓	✓		✓	✓										✓
Economics									*	*	✓					*		✓	✓	✓	✓	*	✓		✓
English literature	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Film studies			✓		✓	✓			✓				✓	✓		✓	✓			✓	✓	✓	✓	✓	✓
French	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Geography				*					*	*						*		*	✓	*		*			
German			✓	*	✓	✓	✓	*			✓	✓	✓	*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*
Greek	✓	✓	✓		✓						✓		✓	✓						✓	✓	✓	✓	✓	✓
History	✓	✓		✓	✓	✓		✓	*	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
History of art & architecture	✓	✓	✓	✓		✓	✓		✓		✓		✓	✓	✓		✓	✓			✓	✓	✓	✓	✓
Italian	✓	✓	✓			✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jewish and Islamic civilisations	✓	✓		✓		✓	✓		*	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Latin	✓	✓	✓	✓		✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mathematics				*	✓		✓	*	✓									✓	*	✓					
Modern Irish			✓	✓		✓	✓	✓	✓		✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓
Music			✓			✓	✓	✓			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Philosophy		✓			✓	✓		✓	*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*	✓		✓
Psychology					✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Russian	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
Sociology			✓		*	✓		✓	*	✓	✓	✓	✓	✓	✓		✓	✓	*	✓			✓	✓	✓
Spanish	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
World religions and theology	✓	✓		✓		✓	✓		*	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Business, economic and social studies (BESS)

common entry programme leading to 10 degree options

COURSE CODE:	TR081
PLACES 2013:	236
POINTS 2012	490*
DEGREE AWARDED:	B.A. or Bachelor in Business Studies (B.B.S.)

Special Entry Requirements:

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

See also:

TR001: TSM, page 40
 TR005: Philosophy, page 100
 TR012: History and political science, page 79
 TR015: Philosophy, political science, economics and sociology, page 102
 TR017: Law and business, page 93
 TR020: Law and political science, page 95
 TR029: Political science and geography, page 105
 TR034: Management science and information systems studies (MSISS), page 126
 TR085, TR086, TR087, TR089, TR090: Business studies and a language, page 44
 TR082: Computer science and business, page 122
 TR083: Sociology and social policy, page 114
 Political science: page 104

Course overview

BESS is a uniquely flexible programme offering 10 different degree options: Business (B.B.S.) and nine other (single honor and joint honor) possibilities, in the disciplines of Business, Economics, Political science and Sociology (see Degree options, below). It provides students with a broadly-based education, offering a high level of flexibility in two very important ways from the second year onwards: (a) in choosing the specific degree you wish to read; and, (b) in choosing individual modules.

Is this the right course for you?

The common first year of BESS introduces you to a broad range of disciplines that will help you make sense of the complex world in which we live today. It gives you the freedom to discover and develop interests that you may not be aware you have until you enter university. From the second year onwards, the flexible structure of the BESS programme allows you to pursue these specific interests in greater breadth and depth while still retaining considerable freedom over the selection of individual modules. Graduates of former years invariably tell us that it is this broad flexible approach that allowed them build the knowledge and insights that they rely on progressively as they advance to more senior positions in their careers.

Course content

The common first year

Students take six modules:

- Economics
- Political science
- Organisation and management
- Sociology
- Mathematics and statistics
- Law OR Social policy OR Introduction to Central, East European and Russian Area studies OR a language*

* French, German, Spanish, Russian or Polish (For French and German a grade HC2 in the Leaving Certificate, or C at A-Level is required. For Spanish a grade HB3 in the Leaving Certificate, or B at A-Level is required. Russian and Polish are only available to non-native speakers as they are taught at beginners level).

Lectures are complemented by smaller tutorial/seminar groups in which you will work throughout the academic year. In this way BESS students are provided with the best of both worlds: lectures deliver authoritative summaries of material which is then analysed in detail in small groups.

Degree options

After the common first year, BESS leads to the following 10 degree options.

Single honor degrees

Business (B.B.S.)	Economics	Political science	Sociology
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Joint honor degrees (combining any two of the above four disciplines)

Business and Economics	Economics and Political science	Political science and Sociology
Sociology and Business	Business and Political science	Economics and Sociology

Features of the BESS degree structure:

- Access to all 10 degree options is completely open and unrestricted at the end of the common first year.
- Through judicious choice of subjects and associated modules after the common first year, it is possible to keep open up to three of the ten BESS degree options throughout the second year, thus facilitating the postponement of a final choice until the beginning of the third year. Students therefore have an opportunity to adjust their study programmes in accordance with their academic results, interests, aptitudes and emerging career aspirations.
- Consultations with your personal tutor, lecturers and the Careers Advisory Service help to ensure that informed choices are made.

BESS at a glance

	Year 2 (6 modules)	Year 3 (6 modules)	Year 4 (4 modules)
Business	<ul style="list-style-type: none"> ■ Organisational behaviour/ principles of marketing ■ Introduction to accounting/ financial analysis ■ Introduction to finance/ introduction to operations management 	<ul style="list-style-type: none"> ■ Financial and management accounting ■ Applied finance ■ Marketing management ■ Human resource management ■ Organisation theory ■ Services and information management ■ Business in society ■ Innovation, entrepreneurship and new venture development 	<ul style="list-style-type: none"> ■ International business and the global economy ■ Exploring organisational experiences ■ Financial reporting and analysis ■ Financial markets and the corporate sector ■ Advances in marketing theory and practice ■ Managing new product development ■ Social entrepreneurship and social innovation
Economics	<ul style="list-style-type: none"> ■ Intermediate economics ■ Economy of Ireland ■ Economics of public policy ■ Mathematics and statistics 	<ul style="list-style-type: none"> ■ Economic analysis ■ Money and banking ■ European economy ■ Economics of less developed countries ■ Investment analysis ■ Economics of policy issues ■ Industrial economics ■ Mathematical economics ■ Econometrics 	<ul style="list-style-type: none"> ■ Economic theory ■ Economics of financial markets ■ Transport economics ■ Quantitative methods ■ International economics ■ Monetary thought and policy ■ Economic and legal aspects of competition policy ■ Economics dissertation
Political science	<ul style="list-style-type: none"> ■ History of political thought ■ International relations ■ Comparative politics 	<ul style="list-style-type: none"> ■ Research methods for political scientists ■ Irish politics ■ Democracy and development ■ European Union politics 	<ul style="list-style-type: none"> ■ Contemporary political theories ■ Political parties ■ Issues in contemporary politics ■ Contemporary international relations ■ African politics ■ Topics in political science ■ Research seminar
Sociology	<ul style="list-style-type: none"> ■ Gender, culture and society ■ European societies ■ Introduction to social research 	<ul style="list-style-type: none"> ■ Social theory ■ Globalisation and development ■ Researching society ■ Race, ethnicity and identity ■ Social policy and inequality 	<ul style="list-style-type: none"> ■ Sociology dissertation ■ Economic sociology of Europe ■ Conflict studies ■ Popular culture and digital lives ■ Migration
Complementary modules (available as electives)	<ul style="list-style-type: none"> ■ Central problems in philosophy ■ History of philosophy ■ Logic and philosophy of science ■ Social security policy ■ Health policy ■ Housing policy ■ Crime and Irish society ■ Language option (1 of 5) ■ Law ■ Broad Curriculum options (see page 14) 	<ul style="list-style-type: none"> ■ Comparative welfare states ■ Crime and social policy ■ Company law ■ Commercial law ■ International law 	<ul style="list-style-type: none"> ■ Poverty, inequality and redistribution

Years 2-4

The table 'BESS at a glance' (see above) gives you a sense of the richness and diversity of modules that are available within BESS in the second, third and fourth years, including complementary modules offered by other disciplines.

The total number of modules available to choose from each year is roughly as follows: Year 2: 20 modules, Year 3: 30 modules, Year 4: 40 modules.

This portfolio of modules illustrates the range of more specialised modules that are available in the later years. A small number of these modules are considered to be 'core subjects' for particular degree options and are designated as mandatory for that degree.

Choosing modules – single honor degrees:

In the second year, students take approximately half of their module load from their preferred discipline, leaving them free to choose their remaining modules from one or more of the other three disciplines and from the set of complementary modules.

In the third and fourth years, students take the majority of their modules from their chosen discipline but, in keeping with the BESS philosophy of flexibility, there is significant scope to choose those modules which appeal most from the range of specialist subjects that is available.

Choosing modules – joint honor degrees:

Throughout years 2-4, joint honor students take about half of their modules from each of the two disciplines they select. Since module choices may be made from among the full range available in two disciplines, joint honour programmes offer exceptionally high flexibility with regard to programme design and module choice.

Final-year dissertation/case study:

In the final year, students may be required or permitted to write a dissertation or prepare a case study. This allows students to research a particular subject, issue or company in greater depth, at the same time providing an excellent opportunity to position oneself for a career in a specific sector or for postgraduate study.

Assessment

Most BESS modules involve a system of continuous assessment, research-based essays, projects and presentations contributing up to 50% of the overall grade for the year. The remainder is based on results of written end-of-year examinations.

Why choose the Trinity College School of Business?

When you decide on a career in business you need to ensure that you have the best preparation to succeed. This includes the quality of your education to enable you to perform to the highest standards. It also includes having a globally recognised qualification that provides you with first class education and a network of global contacts to open the business world to you on your graduation. Thus, you need to align yourself with one of the world's best and most widely recognised universities. **The Trinity College School of Business is ranked 1st in Ireland** (Eduniversal Rankings, 2012), **11th in Europe** (Financial Times Business School Rankings, 2011), and **35th in the World** (Eduniversal Rankings, 2012).

We have a host of top international professors and leading business people who engage with the students, challenge them and guide them into top roles in the global business world. Past Trinity College School of Business students are now leaders in the world of business, government, entertainment, technology, innovation and non-profit businesses, both in Ireland and internationally. So by joining the Trinity College School of Business you give yourself a wonderful education in one of the top universities in the world; you give yourself the opportunity to hear some of the world's leading experts in business; and you leave with a core knowledge of the real world through case studies, company projects and an international dimension through our study abroad programme.

Languages and study abroad

Many students in BESS have the opportunity to study abroad in their third year. First and second year BESS students have the option to study French, German, Spanish, Russian or Polish. Students who have the prerequisite language proficiency may apply to participate in an Erasmus exchange programme. This will mean spending all or part of the third year abroad at a university in Austria, Belgium, France, Germany, Italy, Russia or Spain.

BESS also offers English-speaking international exchange programmes to prestigious universities in Europe, North America, Australia and in Asia (China, Hong Kong and Japan).

There are a limited number of places available on a degree programme involving an extended period of study at the École des Haute Etudes Commerciales (HEC). This leads to the double award of the degree of B.A. (Moderatorship) or the Bachelor in Business Studies (B.B.S.) from Trinity College Dublin and a postgraduate qualification from the partner institution.

Career opportunities

BESS is your roadmap to a wide and varying career. About 50% of our graduates proceed to further study in masters and doctoral programmes both in Ireland and abroad. The remaining 50% enter a diverse range of employment opportunities in areas such as:

Accountancy, Banking & corporate finance, International organisations, Journalism, Law, Marketing, Management consulting, Politics, Public service, Teaching, Policy bodies, and Voluntary organisations. See www.tcd.ie/Careers/students/degree for further details.

The BESS multidisciplinary approach will help you build valuable career skills such as the ability to communicate effectively, work in and lead teams, conduct research and analyse complex problems – all of which will prepare you for rapid advancement within the flexible career structures that are the hallmark of modern employment.

Further information

www.tcd.ie/BESS

Tel: +353 1 896 1840

E-mail: bess@tcd.ie

Student profiles: see course description at: www.tcd.ie/courses

Student Profile

Susan Murray

“Leaving cert year is stressful enough without having to decide on a future career path! The degree options available dazzled me and at best, confused my intentions towards any particular vocation. It was then I decided not to close my options too soon, and make the decision at a later stage.

BESS afforded me with this option. I was confident I could make a better informed decision if I sampled several subjects from different faculties before making the ‘ultimate’ choice. I fancied myself studying business, but was always curious about international politics, and even accounting seemed enticing! My first year in BESS gave me an invaluable insight into a multiplicity of business related subjects as well as an introduction to social and political science.

To my surprise, my original intentions of pursuing business altered through trying other subjects I never would have thought to do before university. That’s mainly how BESS ended up being such a great decision for me – it set me in the right direction. I chose to follow a degree in Sociology, intertwined with similarly related business subjects (e.g. Industrial relations, Human resource management, Management and the European labour market). This combination would never have appealed to me before university, but was positively the right choice for me career wise.

The world is your oyster being a BESS graduate! It does not confine you to Ireland, or indeed Europe. The degree prepares you well. My extensive knowledge of international markets and international relations presented me with many opportunities to experience professional life abroad. Who would have thought I would be living and working in Russia?”

Business studies and a language

(French, German, Russian, Polish or Spanish)

COURSE CODES:	TR085: French (15 places, points 2012: 515)
	TR086: German (15 places, points 2012: 480*)
	TR087: Russian (7 places, points 2012: 475)
	TR089: Polish (5 places, points 2012: 415)
	TR090: Spanish (10 places, points 2012: 505)
DEGREE AWARDED:	B.B.S. (Lang.)

Special Entry Requirements:

Leaving Certificate	OC3/HD3	Mathematics (TR085, TR086, TR087, TR089 & TR090)
	HC1	French (TR085)
	HC1	German (TR086)
GCSE	HC3	In a language other than English (TR087 & TR089)
	HC1	Spanish (TR090)
	Grade B	Mathematics (TR085, TR086, TR087, TR089 & TR090)
Advanced GCE (A-Level)	Grade C	French (TR085)
	Grade C	German (TR086)
	Grade C	In a language other than English (TR087 & TR089)
	Grade C	Spanish (TR090)

See also:

TR017: Law and business, page 93

TR034: Management science and information systems studies (MSISS), page 126

TR081: BESS, page 41

TR082: Computer science and business, page 122

Course overview

The programme offers an exciting way of learning about mainstream business concepts, theories and models in a variety of subject areas as well as getting to grips in an in-depth and comprehensive manner with another country’s language, its society, culture and business environment. Over its four years, the third of which is spent studying and working abroad, the course simultaneously broadens and deepens your academic command of business theories and practices and develops your linguistic competence. At the same time, you will be

developing a wide range of generic and transferable skills that are increasingly required in a variety of careers and employment situations (e.g. working in multi-disciplinary/multi-cultural teams, intercultural negotiation and international management, all of which are highly relevant in Ireland's exceptionally open economy).

The distinctiveness of Trinity College's B.B.S. (Lang.) degrees centres on the following: (a) there is integration of the business and language dimensions in all years of the programme, especially during the year abroad and in the final year, when students write a lengthy case study in the foreign language, under joint supervision by business and language professors; (b) language instruction is provided by specially-trained 'language for business and economics' lecturers, most of whom are native speakers; (c) lectures on the economy, business environment, society and culture of the relevant country are provided by experts who are continuously conducting research in their specialist field of study; and (d) students complete a **work placement** in the target culture in order to apply and develop their business and language skills in a professional setting.

Is this the right course for you?

Students on all five strands of this programme must have well-balanced interests in learning about business and in developing a high level of proficiency in a language. From start to finish, whether as beginners (on the ab initio Russian and Polish* streams) or as more advanced learners (in French, German or Spanish), you will be required to demonstrate a high level of motivation and commitment to mastering core business modules (see the table BESS at a glance, page 42) and to all aspects of language learning. Educational experts emphasise the special challenges associated with the study of two disparate disciplines employing different teaching approaches and requiring different learning styles on the part of the student, but they also stress that mastery of these challenges builds skills that are particularly sought after by employers.

* Special provisions can be made for students with prior knowledge of Russian or Polish (heritage speakers, near-native speakers or those who have an entrance qualification in Russian or Polish).

Did you know?

- If you are considering studying this course at Trinity College, but want to be sure, you are most welcome to **sample lectures** in the participating departments during teaching terms. You may also discuss your options with a member of the teaching staff. Contact either the School of Business or the language department/s by e-mail or phone (see below).

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 modules in business, economic and social studies, you will study the society, institutions, culture and civilisation associated with your chosen language.

Teaching is specifically geared to the everyday needs, both formal and informal, of business managers. Accordingly, the language components of the programme will have a contemporary socio-economic and business orientation, as distinct from a historical or literature-based perspective. Much of the teaching is provided through the target language, simultaneously building language skills and knowledge relevant to managing across cultures.

The Freshman years (years 1 & 2)

There are approximately 18-20 hours of lectures and tutorials per week depending on which subject options are chosen. This should be matched by a similar level of personal study.

Modules in the first and second years include:

Business studies

- Management and organisation
- Marketing
- Law
- Accountancy and financial analysis
- Finance
- Operations management
- Organisational behaviour
- Economics
- Mathematics and statistics

There is also the option to attend modules in areas such as sociology, politics and economics in the second year.

Language

- General language and language for business (written, oral and aural proficiency)
- Contemporary society, institutions and culture
- Overall economic and business environment of the region/country of your chosen language

The Sophister years (years 3 & 4)

The Junior Sophister (third) year is spent at a university or business school in the country of the language you are studying. Trinity College has exchange agreements with a range of leading universities and business schools throughout Europe. The vast majority of modules and examinations taken during your year abroad will be through the medium of your chosen language. On conclusion of the academic year, experience of the business culture in the country of your chosen language is gained through a **work placement of approximately two months' duration**.



In the Senior Sophister (fourth) year, studies are divided more or less evenly between business modules and more advanced study of and practice in the language. To integrate the two areas effectively, you will research and write a major case study (approx 10,000 words, written in the foreign language). This will involve the analysis of a business enterprise based in the country of your chosen language and will be linked to the mandatory business module Strategic management: theory and practice.

Assessment

The evaluation of the year abroad is based on the normal assessments and examinations of the host university. The evaluation of the final year in Trinity College consists of a range of continuous assessment exercises (e.g. group projects, essays, term tests), the case study and end-of-year examinations. In the language area, regular written, oral, aural and presentation exercises are required throughout the year.

Career opportunities

On graduation you will have a strong academic knowledge of international business and management, together with a high-level of competence in the language you have studied. Recent graduates are employed in Ireland and abroad by leading international companies such as Google, Whirlpool, KPMG, AIB Capital Markets and Goldman Sachs, as well as by consultancy organisations, embassies and public sector bodies. Many are working in marketing or international management roles while others occupy more specialist positions (e.g. as analysts or researchers). Several proceed to undertake further study and research in international business at postgraduate level.

Why choose the Trinity College School of Business?

See page 43.

Further information

Course Office:

www.tcd.ie/business/bsl
E-mail: courseoffice@tcd.ie
Tel: +353 1 896 1840

Business School:

www.tcd.ie/business/bsl
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Business studies and French:

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or

Dr. Claire Laudet:
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Tel: +353 1 896 2313 / 896 1553

Business studies and German:

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Student profiles: see course description at:
www.tcd.ie/courses

Business studies and Polish:

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Business studies and Spanish:

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Classics

COURSE CODE:	TR021
PLACES 2013:	15
POINTS 2012	390
DEGREE AWARDED:	B.A.

Special Entry Requirements:

Leaving Certificate	HC3	Greek or Latin
Advanced GCE (A-Level)	Grade C	Greek or Latin

See also:

TR001/TSM subjects:

Ancient history and archaeology, page 48

Classical civilisation, page 50

Greek, page 51

Latin, page 53

Course overview

The study of Classics is concerned with the language, literature, history and thought of ancient Greece and Rome. Through the reading of literature in the original Greek and Latin and the examination of key aspects of ancient history, you will develop a thorough knowledge of the classical world and a critical approach to textual and material culture. If you have already studied either Greek or Latin at school, you can learn the other language as a beginner. Classics has been taught in Trinity College since its foundation just over 400 years ago, and Trinity College is unique in having Chairs in both Greek and Latin.

Is this the right course for you?

If you are interested in studying the languages, the poetic imagination, the depths of thought and the historical value of two civilisations that shaped the western world, you will enjoy this course.

Course content

Over the four years you will read texts in a wide variety of genres, including epic poetry, drama, philosophy, history and letter writing. Whether you are continuing your language studies or taking up one of the languages as a beginner, you will engage with ancient texts both as literature and as a gateway into culture and thought. Through the critical study of ancient history, myth and religion, you will acquire a comprehensive and interdisciplinary perspective on classical culture. For all of your language-based courses the groups will be small, stimulating lively discussion, analytic skills, and the development of independent thinking.

The Freshman years

In the Junior Freshman (first) year you will be introduced to the critical study of ancient history, culture and literature. The language-based courses you take depend on whether you have studied both Greek and Latin before or are taking one of the languages as a beginner. In your Senior Freshman (second) year you will continue the study of Greek and Latin language, literature and history. Courses are taught by lectures and small-group seminars. There are twelve to fourteen contact hours per week.

- **Greek and Roman history** – an introductory survey of the Greek and Roman world, from the Greek Archaic age to the early Roman Empire. The course covers topics such as politics and power, Athenian democracy, the conquests of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict.
- **Mythology and religion** – an introduction to the major myths and religions of the classical world using both literary and artistic evidence. The course also explores theories of myth and the functions of myth within society.

Greek for non-beginners

- **Greek authors** – text-based courses introduce you to the critical reading of Greek literature through a close examination and contextualisation of the oldest and most influential works in western literature: Homer's Iliad and Odyssey, the Histories of Herodotus, the tragedies of Euripides and Sophocles, and the philosophical prose of Plato.
- **Greek language** – this course allows you to practice your translation skills and to study the language of authors not covered in the text-based courses.

Latin for non-beginners

- **Latin authors** – text-based courses introduce you to the critical reading of Latin literature through a close examination and contextualisation of Roman poetry and prose from the early republican to the imperial period: the comedies of Plautus and Terence, Cicero's famous speech On Behalf of Caelius, Virgil's Aeneid, the love poems of Catullus and Ovid, and the letters of Seneca and Pliny the Younger.
- **Latin language** – this course allows you to practice your translation skills and to study the language of authors not covered in the text-based courses.

Greek or Latin for beginners

- **Elementary Greek or Latin** – an intensive introduction to the language. By the end of the year you will be ready to read original texts and your command of the language will be at the same level as those who have studied Greek or Latin before entering university.

The Sophister years

In the Sophister (third and fourth) years you will progress to an in-depth study of topics in Greek and Roman literature, history and culture. You will refine your analysis of texts in their literary and cultural context through more specialised skills and methodologies, such as textual criticism, linguistics and literary theories. Greek topics may include Greek historians, Greek comedy, the Greek novel, and Hellenistic poetry. Latin topics may include Augustan poetry, Desire and the body, Latin historians, Satire, and Latin orators. In your Junior Sophister (third) year you will continue to study ancient history, while separate language classes provide additional assistance in improving your fluency and accuracy in reading and interpretation. In the Senior Sophister (fourth) year you will write a thesis on a subject of your choice. This is an opportunity to do research which will allow you to develop independent ideas and acquire critical skills, while investigating in great depth an area that particularly interests you.

Assessment

A combination of end-of-year examination and continuous assessment (e.g. essays, unseen translations and other language tests, textual commentaries, seminar presentations) and a thesis in the final year.

Study abroad

Trinity College has strong links with many classics departments abroad, including active participation in the Erasmus exchange programme with universities in Cyprus, France, Switzerland and Turkey, and students are able to avail of College-wide exchanges, for example, with North America and Australia. This allows students the option of spending a year abroad.

Career opportunities

Trinity College has a long tradition of Classics graduates who have continued onto postgraduate study and successful academic careers both in Europe and America. Recent graduates have also taken up careers in journalism, public relations, translation and teaching, and with employers such as the Sunday Independent, the European Commission and merchant banks.

Further information

www.tcd.ie/Classics
E-mail: classics@tcd.ie
Tel: +353 1 896 1208

Ancient history and archaeology

COURSE CODE:	TR001 (TSM)
PLACES 2013:	23
POINTS 2012:	390*-545
DEGREE AWARDED:	B.A.

TSM points: See page 31

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

It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects.

For subjects that combine with Ancient history and archaeology see page 40.

See also:

TR001/TSM subjects:

Classical civilisation, page 50
Greek, page 51
Latin, page 53

TR021: Classics, page 47

Course overview

Ancient history and archaeology are both concerned with understanding social, political and cultural experience in the past. This course offers you the opportunity to range across these two broad disciplines. You will study the Greek and Roman worlds by working with historical and literary documents alongside the material remains of ancient sites and artefacts. You also explore Greek and Roman relationships with neighbouring cultures, such as Egypt and the Near East, within the Mediterranean and beyond. There are opportunities to participate in archaeological fieldwork and in study tours to classical sites. All material is studied in translation and no knowledge of Greek or Latin is required.

Is this the right course for you?

You will enjoy this course if you are interested in studying the history and culture of the Greeks and Romans – their achievements and their profound influence on the modern world – through the complementary study of history and archaeology.

Course content

Over your four years you will develop a broad understanding of the ancient world through its history and archaeology, moving from introductory courses in the first year, to more focused thematic topics in the second and third years, and choosing from a range of specialised options in your final year. The course is taught through a mixture of lectures, practical classes and small-group seminars, which encourage lively discussion and the development of independent thinking.

The Junior Freshman year

In the Junior Freshman (first) year you will take three courses – see below. There are approximately six hours of classes in the Junior Freshman year.

- **Greek and Roman history** – an introductory survey of the Greek and Roman world from the Greek Archaic age to the early Roman Empire. The course covers topics such as politics and power, the Athenian invention of democracy, the rise of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict.
- **Greek and Roman art and architecture** – an introductory survey of the development and major artistic achievements in architecture, sculpture and painting. The course places art and architecture in its social and political context; it focuses on themes such as the use of narrative and mythology in art, urbanisation, and on the development of architectural forms such as temples, theatres and Roman baths.
- **Sources and methods in history and archaeology** – an introduction to the materials, methodologies and theories employed by historians and archaeologists. This course is specially designed to develop the practical, analytical and critical skills required to assess ancient evidence. The course mixes lectures with smaller seminars which focus on discussion and hands-on work with artefacts.

The second and third years

Courses in the second and third years offer the opportunity to focus on specific themes and periods in the history and archaeology of the Mediterranean, develop a deeper awareness of methods and theory, discuss key themes of relevance to both the ancient and modern world, and to work with artefacts. Over the two years you will study topics in: Greek archaeology and history, Aegean Bronze Age archaeology, Roman archaeology and history, and History and archaeology of Roman Britain. There are also options to do practical archaeological work or an approved study tour to the Mediterranean in place of a taught course in these years. All the courses are taught by lectures and small-group seminars.

In the Greek archaeology and history courses you explore major themes such as colonisation, empire, the emergence of literacy, slavery, war and ideology, religion, and social issues such as sexuality, gender and death. These courses range in time from the development of the Greek city-states, such as Athens and Sparta, to the Hellenistic kingdoms founded in the wake of Alexander. The Bronze Age course takes you back in time to the early palatial civilisations of the Minoans and Mycenaeans.

In Roman history you will study imperial history from Augustus to the emperor Constantine, examining the period from a number of perspectives, from the emperors themselves to the lowliest of slaves, and ranging from imperial politics and military strategy, to economics and social concerns such as religion and rebellion. Roman archaeology takes you the length and breadth of the Roman world, exploring cities and urban life, frontiers and the army, trade, transport and technology. In the Roman Britain course you will assess the impact of Roman culture on Britain as a remote Roman province and consider issues such as imperialism, acculturation and identity.

The Senior Sophister year

If you decide to study ancient history and archaeology in the final year you will be able to choose two special subjects from a range on offer. Courses offered recently include Ancient Cyprus; Egypt; Entertainment and spectacle in the Greek and Roman worlds; Goddesses of the ancient Mediterranean; Anthropology and the Greeks; Kings and cities; Rhetoric: the art of persuasion.

You will also write a thesis on a subject of your choice. This is an opportunity to do research which will allow you to develop independent ideas and acquire critical skills while investigating in great depth an area that particularly interests you.

Assessment

A combination of end-of-year examination and continuous assessment (e.g. essays, seminar presentations and team projects, artefact studies and short commentaries on texts) is used and a thesis is written in the final year.

Study abroad

Trinity College has strong links with many Classics departments abroad, including active participation in the Erasmus exchange programme with universities in Cyprus, France, Switzerland and Turkey, and students are able to avail of College-wide exchanges, for example, to North America and Australia. This allows students the option of spending a year abroad.

Career opportunities

Recent graduates have entered many fields including archaeology, heritage and museum work, art restoration, teaching and higher education policy, publishing, heritage and museum work, business, accountancy and social work. Each year some of our graduates also opt to pursue a research career in history or archaeology beginning with postgraduate study in Ireland or abroad.

Further information

www.tcd.ie/Classics
E-mail: classics@tcd.ie
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Student profiles: see course description at:
www.tcd.ie/courses

Classical civilisation

COURSE CODE:	TR001 (TSM)
PLACES 2013:	29
POINTS 2012	405-555
DEGREE AWARDED:	B.A.

TSM points: See page 31

Classical civilisation cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects.

For subjects that combine with Classical civilisation see page 40.

See also:

TR001/TSM subjects:

Ancient history and archaeology, page 48

Greek, page 51

Latin, page 53

TR021: Classics, page 47

Course overview

The study of Classical civilisation is concerned with the literature and culture of ancient Greece and Rome. Through the examination and contextualisation of literary works and the analysis of the main aspects of ancient history and art, you will develop a thorough knowledge of the classical world and a critical approach to Greek and Roman literature. All texts are studied in translation and no knowledge of Greek or Latin is required.

Is this the right course for you?

If you enjoy literature; if you want to acquire an understanding of the past and its influence; if you would like to engage with the mythology, poetic imagination, depth of thought and historical value of two civilisations that shaped the western world, this is the course for you.

Course content

Over four years you will develop a broad understanding of the classical world, primarily through its literature. You will move from introductory courses in the first year to the study of specific authors, genres and themes in the second and third years. In your final year you will choose from a range of specialised options. All courses are taught by lectures and small-group seminars.

The Junior Freshman year

In the Junior Freshman (first) year you will be introduced to the critical study of ancient history, art, myth and religion, with a view to acquiring a comprehensive and interdisciplinary perspective on classical culture. There are approximately six hours of classes in the Junior Freshman year.

- **Greek and Roman history** – an introductory survey of the Greek and Roman world from the Greek Archaic age to the early Roman Empire. The course covers topics such as politics and power, Athenian democracy, the conquests of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict.
- **Greek and Roman art and architecture** – an introduction to the development and major artistic achievements in architecture, sculpture and painting. The course places art and architecture in its social and political context; it focuses on themes such as the use of narrative and mythology in art, urbanisation, and the development of architectural forms such as temples, theatres and Roman baths.
- **Mythology and religion** – an introduction to the major myths and religions of the classical world using both literary and artistic evidence. The course also explores theories of myth and the functions of myth within society, and includes seminars designed to develop analytical and critical skills relevant to the study of literature.

The second and third years

In each of these two years you will take four or five course which focus on specific authors (e.g. Homer, Virgil, Herodotus), genres (e.g. tragedy, comedy, philosophy) or themes (e.g. gender and sexuality, identity and self-image). In these courses you will analyse ancient texts both as literature and as gateways into culture and thought, discuss key themes of relevance to both the ancient and modern world, and refine your analysis of texts in their literary and cultural context through more specialised skills and methodologies. All the courses are taught by lectures and small-group seminars.

You will learn, for example, how the Greeks and Romans saw themselves and other cultures; how they tried to make sense of the world around them through philosophy and religion; how they thought about politics and ideology, ethnicity and identity, life and death.

The Senior Sophister year

If you decide to study Classical civilisation in the final year you will be able to choose two special subjects from a range on offer. Courses offered recently include; Ancient Cyprus; Egypt; Entertainment and spectacle in the Greek and Roman worlds; Goddesses of the ancient Mediterranean; Anthropology and the Greeks; Kings and cities; Rhetoric: the art of persuasion.

You will also write a thesis on a subject of your choice. This is an opportunity to do research which will allow you to develop independent ideas and acquire critical skills while investigating in great depth an area that particularly interests you.

Assessment

A combination of end-of-year examination and continuous assessment (e.g. essays, seminar presentations and short commentaries on texts), and a thesis in the final year.

Study abroad

Trinity College has strong links with many Classics departments abroad, including active participation in the Erasmus exchange programme with universities in Cyprus, France, Switzerland and Turkey, and students are able to avail of College-wide exchanges, for example, with North America and Australia. This allows students the option of spending a year abroad.

Career Opportunities

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

Graduate Profile

Kate Higgs

Solicitor and European Trade Mark Attorney at WhitneyMoore Solicitors

"Were there really only 300 Spartans at the battle of Thermopylae? Was Alexander actually injured on a sunny day at Hydaspes as depicted by Oliver Stone? Why is the entire premise of Percy Jackson and the Lightning Thief bogus? The foundation courses in Myth and History in the first year of Classical civilisation, and the literary courses in 2nd and 3rd year would give you the answer to all of these questions. But there is far more to be gained from the study of Classical civilisation than just being the pedant in the audience who scoffs at the glaring discrepancies of Hollywood blockbuster scripts. Fourth year in Classical civilisation was the highlight of my College experience. For Irish students coming out of the Leaving Certificate education system, it can take a year or two to fully comprehend the idea of independent thought and research. But by the final year of my degree, I was fully equipped with the necessary skill-set to set about exploring an area of my own choosing (in my case Imperial Roman women who used their feminine wiles to gain power and influence), working and shaping my project into a satisfyingly substantial piece of work. Classes in fourth year in the Department of Classics centre on each lecturer's area of expertise, and are given in a less formal seminar format. This afforded us both the privilege of studying with lecturers who were imparting cutting-edge research and the opportunity to present our own ideas and opinions to our peers. It was challenging and satisfying to think hard about complex issues that are both grounded in ancient concerns and also still pertinent to the way we approach the world around us today. That is the beauty of studying the Classics as the foundation of Western culture: you learn to appreciate just how relevant many ancient theories and ideas are to modern debates."

Further information

www.tcd.ie/Classics
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Greek

COURSE CODE:	TR001 (TSM)
PLACES 2013:	8
POINTS 2012	405-555
DEGREE AWARDED:	B.A.

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate	HC3	In Greek or in a language other than English
Advanced GCE (A-Level)	Grade C	In Greek or in a language other than English

Greek (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with Greek see page 40.

Greek may be studied from either beginners' or a more advanced level.

Greek and Latin may be studied together in the single honor Classics degree – TR021 (see page 47).

Course overview

The study of Greek is concerned with the language, literature and thought of ancient Greece. Through the reading of literature in the original Greek and the examination of key aspects of ancient history, you will develop a thorough knowledge of the classical world and a critical approach to textual and material culture.

Is this the right course for you?

If you are interested in studying the language, the poetic imagination, the depth of thought and the historical value of a civilisation that shaped the Western world, you will enjoy this course.

Course content

Over the four years you will read texts in a wide variety of genres, including epic, tragedy, comedy, philosophy, oratory and historiography. Whether you are continuing your language studies or taking Greek as a beginner, you will engage with ancient texts both as literature and as a gateway into culture and thought. Through the critical study of ancient history, myth and religion, you will acquire a comprehensive and interdisciplinary perspective on classical culture. For all of your language-based courses the groups will be small, stimulating lively discussion, analytic skills, and the development of independent thinking.

The Freshman years

In the Junior Freshman (first) year you will be introduced to the critical study of ancient history, culture and literature. The language-based courses you take depend on whether you have studied Greek before or are taking it up as a beginner; your choice of a topic in ancient history and culture depends on your TSM combination. In your Senior Freshman (second) year you continue the study of Greek language, literature and history. Courses are taught by lectures and small-group seminars. There are six to eight contact hours per week.

- **Greek and Roman history** – an introductory survey of the Greek and/or Roman world, from the Greek Archaic age to the early Roman Empire. The course covers topics such as politics and power, Athenian democracy, the conquests of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict.
- **Mythology and religion** – an introduction to the major myths and religions of the classical world using both literary and artistic evidence. The course also explores theories of myth and the functions of myth within society.
- **Sources and methods in history and archaeology** – an introduction to the materials, methodologies and theories employed by historians and archaeologists.

Greek for beginners

- **Elementary Greek** – an intensive introduction to the ancient Greek language. By the end of the year you will be ready to read original texts and your command of the language will be at the same level as those who have studied Greek before entering university.

Greek for non-beginners

- **Greek authors** – text-based courses introduce you to the critical reading of Greek literature through a close examination and contextualisation of the oldest and most influential works in western literature: Homer's Iliad and Odyssey, the Histories of Herodotus, the tragedies of Euripides and Sophocles and the philosophical prose of Plato.
- **Greek language** – this course allows you to practice your translation skills and to study the language of authors not covered in the text-based courses.

The Sophister years

In the Sophister (third and fourth) years you will progress to an in-depth study of topics in Greek literature, history and culture. You will refine your analysis of texts in their literary and cultural context through more specialised skills and methodologies, such as textual criticism, linguistics and literary theories. Topics may include Greek historians, Greek comedy, the Greek novel, and Hellenistic poetry. In your Junior Sophister (third) year, you will continue to study ancient history, while separate language classes provide additional assistance in improving your fluency and accuracy in reading and interpretation. In the Senior Sophister (fourth) year you will also study a special topic in Classical culture and write a thesis on a subject of your choice. The thesis is an opportunity to do research which will allow you to develop independent ideas and acquire critical skills, while investigating in great depth an area that particularly interests you.



Assessment

A combination of end-of-year examination and continuous assessment (e.g. essays, unseen translations and other language tests, textual commentaries, seminar presentations), and a thesis in the final year.

Study abroad

Trinity College has strong links with many Classics departments abroad, including active participation in the Erasmus exchange programme with universities in Cyprus, France, Switzerland and Turkey, and students are able to avail of College-wide exchanges, for example, to North America and Australia. This allows students the option of spending a year abroad.

Career opportunities

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

Further information

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

Latin

COURSE CODE:	TR001 (TSM)
PLACES 2013:	10
POINTS 2012	435-540
DEGREE AWARDED:	B.A.

TSM points: See page 31

Special Entry Requirements:

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

Latin (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects.

For subjects that combine with Latin see page 40.

Latin may be studied from either beginners' or a more advanced level.

Latin and Greek may be studied together in the single honor degree Classics – TR021 (see page 47).

Course overview

The study of Latin is concerned with the language, literature and thought of ancient Rome. Through the reading of literature in the original Latin and the examination of key aspects of ancient history you will develop a thorough knowledge of the classical world and a critical approach to textual and material culture.

Is this the right course for you?

Trinity College is the only university in Ireland with a Chair in Latin, and it has a long and distinguished tradition in teaching and research in Classics. If you are interested in studying the language, the poetic imagination, and the historical value of a civilisation that shaped the Western world, you will enjoy this course.

Course content

Over the four years you will read texts in a wide variety of genres, including epic, comedy, love poetry, history, and letter writing. Whether you are continuing your language studies or taking Latin as a beginner, you will engage with ancient texts both as literature and as a gateway into culture and thought. Through the critical study of ancient history, myth and religion you will acquire a comprehensive and interdisciplinary perspective on classical culture. For all of your language-based courses the groups will be small, stimulating lively discussion, analytic skills, and the development of independent thinking.

The Freshman years

In the Junior Freshman (first) year you will be introduced to the critical study of ancient history, culture and literature. The language-based courses you take depend on whether you have studied Latin before or are taking it up as a beginner; your choice of a topic in ancient history and culture depends on your TSM combination. In your Senior Freshman (second) year, you continue the study of Latin language, literature and history. Courses are taught by lectures and small-group seminars. There are six to eight contact hours per week.

- **Greek and Roman history** – an introductory survey of the Greek and/or Roman world, from the Greek Archaic age to the early Roman Empire. The course covers topics such as politics and power, Athenian democracy, the conquests of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict.
- **Mythology and religion** – an introduction to the major myths and religions of the classical world using both literary and artistic evidence. The course also explores theories of myth and the functions of myth within society.
- **Sources and methods in history and archaeology** – an introduction to the materials, methodologies and theories employed by historians and archaeologists.

Latin for beginners

- **Elementary Latin** – an intensive introduction to the Latin language. By the end of the year you will be ready to read original texts and your command of the language will be at the same level as those who have studied Latin before entering university.

Latin for non-beginners

- **Latin authors** – text-based courses introduce you to the critical reading of Latin literature through a close examination and contextualisation of Roman poetry and prose from the early republican to the imperial period. Texts include the comedies of Plautus and Terence, Cicero's famous speech On Behalf of Caelius, Virgil's Aeneid, the love poems of Catullus and Ovid, and the letters of Seneca and Pliny the Younger.
- **Latin language** – this course allows you to practice your translation skills and to study the language of authors not covered in the text-based courses.

The Sophister years

In the Sophister (third and fourth) years you will progress to an in-depth study of topics in Roman literature, history and culture. You will refine your analysis of texts in their literary and cultural context through more specialised skills and methodologies, such as textual criticism, linguistics and literary theories. Topics may include Augustan poetry, Didactic poetry, Latin historians, Satire, and Latin orators. In your Junior Sophister (third) year you will continue to study ancient history, while separate language classes provide additional assistance in improving your fluency and accuracy in reading and interpretation. In the Senior Sophister (fourth) year you will also study a special topic in Classical culture and write a thesis on a subject of your choice. The thesis is an opportunity to do research which will allow you to develop independent ideas and acquire critical skills while investigating in great depth an area that particularly interests you.

Assessment

A combination of end-of-year examination and continuous assessment (e.g. essays, unseen translations and other language tests, textual commentaries, seminar presentations) is used, and a thesis is written in the final year.

Study abroad

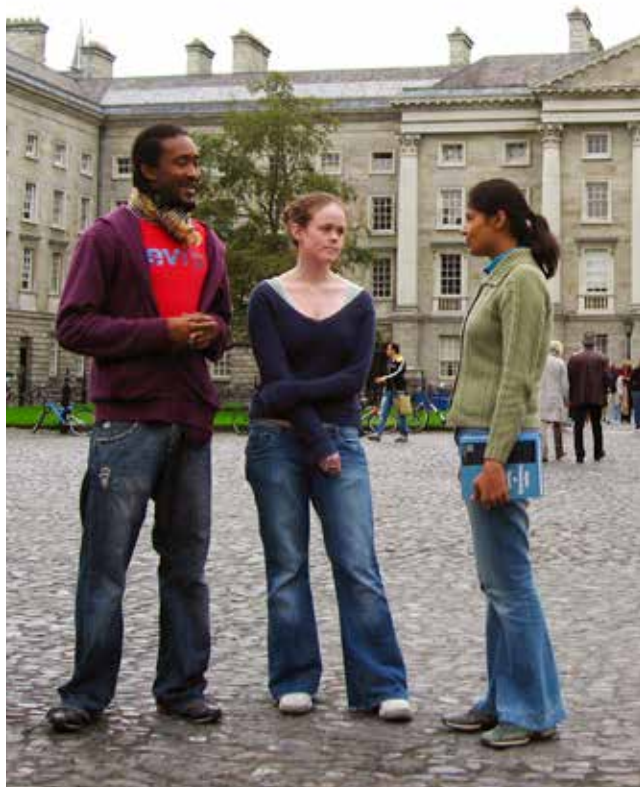
Trinity College has strong links with many Classics departments abroad, including active participation in the Erasmus exchange programme with universities in Cyprus, France, Switzerland and Turkey, and students are able to avail of College-wide exchanges, for example, with North America and Australia. This allows students the option of spending a year abroad.

Career opportunities

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

Further information

www.tcd.ie/Classics
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Clinical speech and language studies

COURSE CODE:	TR007
PLACES 2013:	34
POINTS 2012:	535*
DEGREE AWARDED:	B.Sc. (Clin. Lang.)

Special Entry Requirements:

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

See Precautions against infectious diseases, page 199.

Students will be required to undergo Garda vetting, see page 30 for further details.

What is Clinical speech and language studies?

The undergraduate programme in Clinical speech and language studies is a four-year professional honors course in speech and language therapy. Speech and language therapists work with people who have communication difficulties, helping them to find ways to maximise their speech, language and communication skills so that they can participate fully within society. They also assess, diagnose and treat people with swallowing difficulties.

Communication difficulties can occur at any stage in a person's life and they happen for a variety of reasons. Some are present at birth, others are due to accidents or illness later in life. Speech and language therapists commonly work with children who are delayed in their early language development and/or development of speech sounds. They also work with people who have acquired communication and/or swallowing problems (e.g. following stroke), people with physical impairments (e.g. cerebral palsy), learning difficulties (e.g. intellectual impairment, autism), people who stutter or have problems with their voice, people with written language problems (e.g. dyslexia) and people with mental health disorders. They often work as part of a multidisciplinary team that may include a teacher, psychologist, doctor, occupational therapist, nurse and social worker among others. Therapists work in a variety of settings, including hospitals, community settings such as primary and continuing care clinics, in schools and/or day care centres or in some instances they may be situated within specialist clinics.

Is this the right course for you?

Do you enjoy working with people? Do you have a questioning approach to learning? Are you flexible and adaptable? Are you interested in how people communicate? As a speech and language therapist, you will come into contact with people of all ages and will have the option to work in a range of settings, including schools, community clinics, specialist clinics and hospitals. In almost all instances, you will also find yourself working with parents and/or families. While an interest in science and language is important, it is critical that you are people-oriented, adaptable and enjoy collaborative problem-solving. Visiting a speech language therapist at work is a good way to find out whether this is the profession for you.

Course overview

This course is for students who enjoy learning by doing. At all stages in the course, you will be involved in solving problems that mirror the problems people encounter in a clinical situation. Clinical placements are an important learning context right from the start. **We have access to a wide range of clinical settings, to ensure that students get a broad range of experience, as well as an on-site clinic where you may be involved in clinical research projects.**

This is a four-year degree which is recognised and accredited by the Irish Association of Speech and Language Therapists. Over the four years, you will be expected to develop an in-depth understanding of communication development and disorders as well as swallowing disorders, so that you are well placed to assist those who have communication and swallowing difficulties. Linguistics, psychology and biomedical sciences are major components of the course. You will also gain experience in research techniques, so that you can continue developing your knowledge base.

There are approximately twenty-four teaching hours per week in the Junior Freshman (first) year, including clinical visits.

The component courses are grouped under two headings: Theory and Clinical practice.

Theoretical component

Major subject areas include speech and language pathology, linguistics, psychology, discourse analysis, anatomy (studied through human dissection and lectures), physiology, neurology and audiology.

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

Clinical practice

During term time an average of one day per week is reserved for student clinical work. You will also be required to undertake clinical practice outside term time: a three-week block in the Senior Freshman (second) year, a four-week block in the Junior Sophister (third) year and a one-week block in the Senior Sophister (fourth) year. A six- to eight-week block is also organised within term time in the Senior Sophister year. While you will generally attend clinics around Ireland, it may be possible, by special arrangement, to attend clinics in other countries.

PBL

Problem-based or problem-centred learning provides students with structured problems for specified learning objectives. Students work in groups (under supervision) to research how to 'solve' the problem set. They share their information with each other and develop important skills in teamwork. Many of the problems are assessed through group oral presentations and/or written assignments. Tutor feedback guides students at every stage.

The Freshman years – theoretical component:

In the Junior Freshman (first) year you will be introduced to the areas of language acquisition, speech sciences, human development and biomedical sciences. These courses will be the foundation for later years of study, and include modules in:

- Clinical practice
- Pre-clinical skills
- Speech and hearing
- Linguistics – introduction to language, the individual and society; Syntax; the CHILDES database
- Phonetics – the study of vocal sounds
- Psychology
- General and neuro-anatomy (studied through lectures and human dissection)
- Physiology – the study of the functions of living organisms

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

- Disorders of speech, language and communication and swallowing – you will learn about possible frameworks and tools for assessing skills in each of these areas, as well as how to ensure individuals with communication difficulties can participate in society
- Clinical and experimental phonetics
- Linguistics
- Psychology

The Sophister years

In the Sophister (third and fourth) years the theoretical component of the course focuses more specifically on therapy approaches and clinical management. You also continue to study aspects of psychology, psychiatry and linguistics (i.e. discourse analysis).

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

Assessment

Your theoretical knowledge is assessed by a combination of continuous assessment and written end-of-year examinations.

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

The Trinity College degree and professional practice

On graduation, **your qualification from Trinity College Dublin is recognised as a licence to practise** as a Speech and Language Therapist in Ireland. Those holding the degree are eligible to apply for membership of the Irish Association of Speech and Language Therapists (IASLT) www.iaslt.ie. Graduates who wish to work in the UK should contact the Health Professionals Council, www.hpc-uk.org. Graduates of the course who wish to work in another European country will have to apply for government approval in that country. If you are considering applying for professional recognition to work as a Speech-Language Pathologist in the US or Canada, you should contact the American Speech-Language-Hearing Association at: www.asha.org or the Canadian Association of Speech-Language Pathologists and Audiologists at www.caslpa.ca/english

Career opportunities

For more detailed information on your career prospects, visit the professional associations' websites at www.iaslt.ie and www.rcslt.org

Further information

www.tcd.ie/slscs/clinical-speech-language
Tel: +353 1 896 1496

Did you know?

- The Department of Clinical Speech and Language Studies in Trinity College is the longest-established speech language therapy programme in the Republic of Ireland, celebrating over forty years of innovation and development. In addition to our undergraduate programme, you can access postgraduate opportunities, linked to research-led clinical practice.



Deaf studies

COURSE CODE:	TR016
PLACES 2013:	20
POINTS 2012:	395*
DEGREE AWARDED:	Bachelor in Deaf Studies (B.St.Su.)

Entry Requirements:

Leaving Certificate	HC3	English
	OD3/HD3	In a language other than English
Advanced GCE (A-Level)	Grade C	English literature (A or B) or English language (A or B)
GCSE	Grade C	In a language other than English

Entry to Year 3 of Bachelor in Deaf studies:

Graduates of the Centre's Diplomas in Deaf studies, Irish Sign Language (ISL) teaching and ISL/English interpreting may apply for entry to year 3 of the Bachelor in Deaf studies if they hold a II.2 or above.

Students will be required to undergo Garda vetting, see page 30 for further details.

What is Deaf studies?

Deaf studies explores the position of the Deaf community from social, educational, policy and historical perspectives. Graduates will develop fluency in Irish Sign Language (ISL) and may choose to specialise as ISL/English interpreters, ISL teachers or as generalists in Deaf studies. Interpreters facilitate communication in a range of community and conference settings including legal, medical, educational, social services, and employment related settings. ISL teachers deliver language learning in a range of contexts, working with Deaf children and their families at home, and with adults who are learning ISL as a second language. There is currently a significant shortage of professional ISL/English interpreters and ISL teachers in Ireland. Those specialising in Deaf studies develop valuable research skills as part of this course.

Is this the right course for you?

Through Deaf studies, you will come into contact with people of all ages and will be required to work in a range of settings, which may include community clinics, hospitals, legal contexts and a wide range of community and educational settings. You will be working between Deaf and hearing communities and bridging communication and cultural gaps. In many instances, you will also find yourself dealing with families of Deaf and hard-of-hearing people. 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. You should have

an interest in learning about language, culture and society and be open to using technology in your learning.

Course overview

Deaf studies is a four-year full-time honors degree course. No prior knowledge of ISL is required. The course provides a comprehensive introduction to the Deaf community and ISL for those wishing to work in or with the Deaf community.

Course content

This course gives an in-depth understanding of the Irish Deaf community and of the experience of Deaf people internationally, historically and in contemporary society. ISL is studied across the programme, while in years one and two, themes such as Deaf education, the representation of Deaf people in the media, the legal and political standing of signed languages and access to critical public health services are explored, along with understanding of the structure of ISL, the sociolinguistic context and the path to acquisition of a signed language for Deaf children. For ISL/English interpreting students, translation theory and the practical skills of interpreting, guided by ethical practice are emphasised in years three and four. For students taking the ISL teaching route, aspects of the psychology of education are introduced along with guidance on planning and implementing a curriculum and assessing student performance. On the Deaf studies route, there are options relating to the development of accessible multimedia for Deaf and hard-of-hearing people or carrying out a research project, which culminates in a dissertation. For all students years three and four include practice placements with organisations working with/for the Deaf community in Ireland or (through Erasmus links) across the European Union. In the Junior Freshman (first) year, there are approximately 17 hours of direct teaching. The component courses are grouped under three headings: Language, Theory and Practice.

Language component

Across the four years of the degree ISL skills will be developed to a high degree. Our language teaching is mapped to the Common European Framework of Reference for Languages (Council of Europe), so you will be able to map your progress against your knowledge of other languages. Students have six to nine hours of ISL hours of class contact per week.

Theoretical component

Theoretical courses introduce you to aspects of language acquisition, linguistics, sociolinguistics, social policy, and social studies. Each theoretical course involves two hours of lecture time per week plus an expectation of self study. Theoretical courses include:

- An introduction to sign linguistics
- Sociolinguistics
- Perspectives on deafness
- Interactional discourse analysis
- Language acquisition and deafness
- Aspects of written language
- Deaf education
- Working with the Deaf community
- Deaf people and the media
- Ethics
- Translation and interpreting: Philosophy and practice
- Methods of assessment
- Curriculum planning
- Teaching methods
- Theories of education
- Research methods
- Teaching ISL as L1/L2

Students can also select one course from the Broad Curriculum in both years one and two (see page 14). **In year 3, students may consider spending a term abroad as a visiting student.**

Practice component

Practical components are introduced in the Sophister (third and fourth) years and will include **block placements with organisations**. These will include a four-week block placement in the Junior Sophister (third) year and an eight-week block in the Senior Sophister (fourth) year. While you will usually attend placement in an Irish organisation, it is possible, by special arrangement, to arrange a **placement abroad**. In previous years, students have undertaken placements with a wide range of organisations including the Irish Deaf Society, DeafHear, Kerry Deaf Resource Centre, Deaf Community Centre (Limerick), Cork Association for the Deaf, Sign Language Interpreting Service (SLIS), Bridge Interpreting, the National Chaplaincy for Deaf People and Remark (London).

Assessment

Award of the degree is based on continuous assessment, a practice placement, and final examinations. A student whose placement performance is considered unsatisfactory may be allowed further placement experience.



Career opportunities

Graduates frequently work in Deaf organisations (e.g. as a resource officer) or combined with another skill set, such as teaching, child care, social work, media, etc., work as an ISL teacher, or as an ISL interpreter. There is also scope for continuing to further study in areas such as linguistics, communications, anthropology, multiculturalism, gender studies, law, etc. Graduates have also gone on to work in the Civil Service and other public service bodies.

Did you know?

- Irish Sign Language is the second indigenous language of Ireland and is the working language at the Centre for Deaf Studies. ISL is one of the many signed languages recognised by the European Institutions and has been formally recognised in Northern Ireland. Trinity College is the only university on the island of Ireland offering a Deaf studies programme.

Further information

www.tcd.ie/slscs/cds

Tel: + 353 830 1560

E-mail: cdsinfo@tcd.ie

Centre for Deaf Studies, School of Linguistic, Speech and Communication Sciences, 4th Floor, Arts Building, Trinity College Dublin.

Drama and theatre studies & Drama studies

COURSE CODES:	TR025	TR001 (TSM)
PLACES 2013:	16	24
POINTS 2012:	510	515-540*
DEGREE AWARDED:	B.A.	

TSM points: See page 31

This is a restricted entry course. Applications must be submitted by 1 February 2014.

Applicants will receive a questionnaire in March to be completed and returned. On the basis of the completed questionnaire, some applicants will be called to attend a workshop and interview (during April and May), before final selections are made.

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

TR001 – Drama studies (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects.

For subjects that combine with Drama studies see page 40.

See also:

Acting, page 61

Stage management and technical theatre, page 62

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 community, school or youth theatre, and it includes considerable work in practical theatre activities. For single honor students there are approximately 14 hours per week of classes plus rehearsals.

Drama studies (TSM joint honors) – TR001

The TSM course explores theatre and drama mainly from a theoretical and historical perspective. It combines library-based courses with training in critical and analytical skills. While it follows a similar format to its single honor equivalent – Drama and theatre studies (TR025) – the practical content is limited in the first two years, but allows for the taking of practical modules in third and fourth years. For TSM students there are approximately 7 hours per week of classes plus rehearsals.

Is this the right course for you?

These courses provide students with a broad foundation in all aspects of theatre and performance. They allow students to specialise in one or more practical areas of theatre and are designed to prepare students for careers and further training in theatre and related fields. The strong developmental nature of Drama and theatre studies means that, in addition to a high level of analytical ability, you will need to possess resourcefulness, self-motivation and good time-management skills. By its nature, practical theatre work calls for full-time commitment to rehearsal and production at certain times of the year. You will also need to have the ability to work as a member of a team to succeed on this course.

Course overview

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

The Freshman years

The Junior and Senior Freshman (first and second) years will provide you with the skills of the theatre historian, analyst and practitioner. During these years, the course provides an introduction to drama, theatre and performance. Teaching is by lecture, seminar and practical workshop and is arranged in a series of three-week intensive modules over each of the two semesters. Courses cover defined historical periods, genres and movements, such as ancient Greek theatre, Shakespeare, Melodrama, Gender and performance, Postmodern theatre and Classical Asian theatre. Single honor students, in addition to all of the courses above take courses in practical areas of theatre (Introduction to performing, Introduction to theatre making and Technical theatre). These practical courses run through both of the Freshman years.

In the Junior Freshman (first) year these courses are supplemented for all students by classes in study and writing skills and multimedia technology. Senior Freshmen (second-year students, both single honor and TSM) supplement their practical experience of theatre in a full year-end ensemble production in the Samuel Beckett Theatre.

The Sophister years

In the Junior and Senior Sophister (third and fourth) years, the curriculum offers library-based courses in theatre and performance history with more practical workshop-based courses. There is a compulsory course entitled “Contemporary Irish theatre in context” for all students. The remainder of the curriculum is constructed by each student via selection from a range of optional modules. TSM and single honor students are treated equally in the Junior Sophister (third) year (meaning there is no prioritisation), with TSM students taking half the number of courses required of single honor students. In the Senior Sophister (fourth) year, there is no difference in curriculum between single honor students and TSM students who major in Drama.

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

Assessment

Assessment is by a combination of essays, journals, practical assignments, class presentations, written and oral examination and, in your final year, a dissertation.

Study abroad

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

Did you know?

- Since its establishment in 1592, Trinity College has educated some of the greatest dramatists in world theatre, from Congreve and Goldsmith to Synge and Beckett.
- Drama at Trinity College is housed in the purpose-built Samuel Beckett Centre. Within the centre is the Samuel Beckett Theatre, a 208-seat black box performance space, the Players Theatre (the studio theatre of Trinity College's student drama society), a dance studio/rehearsal space, seminar rooms and offices.
- Contemporary playwrights, directors, actors and designers often visit Trinity College to discuss their work and give workshops or courses. In recent years, visitors have included Augusto Boal, 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 seek employment in theatre or related professions. Many opt to take further training or apprenticeships in specialist areas of theatre, film, or television (such as directing, acting, design, writing, management, community drama and teaching). A number of recent graduates have formed their own theatre companies, have won awards, or have active careers in theatre, film, or television. Others have chosen research careers beginning with further study at postgraduate level.

Further information

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

Graduate Profile

Dominic West

Dominic played lead detective Jimmy McNulty in the critically acclaimed HBO series *The Wire*. He graduated from Trinity College with a B.A. in Drama studies and English, having played lead roles in Drama department productions. Like many other Drama students at Trinity College, Dominic went on to train professionally as an actor after graduation. As well as many film and television roles he has also performed at the Royal National Theatre and several West End theatres in London.



Acting

PLACES 2013:	14
DEGREE AWARDED:	Bachelor in Acting (Hons.)

Special Entry Requirements:

This is a restricted entry course. Applications must be submitted by 1 February 2014.

This course is taught by The Lir National Academy of Dramatic Art @ Trinity College Dublin. **It is not part of the CAO application system.** Application forms can be downloaded from the Lir website www.thelir.ie and should be mailed to The Administrator, The Lir National Academy of Dramatic Art, Trinity Enterprise and Technology Campus, Dublin 2, Ireland.

Entry is by Audition. Students will prepare a classical and a contemporary monologue for first audition. Each monologue should be no more than three minutes long. Successful applicants at first audition will be required to attend at least one more round of auditions at which voice, movement and group skills will be assessed. The final date for receipt of applications is 1 February 2014; however, applicants are encouraged to apply from November onwards. Auditions will be held between December 2013 and March 2014.

See also:

TR001 Drama studies, page 59

TR025 Drama and theatre studies, page 59

Stage management and technical theatre, page 62

The teaching is intense and offers a high degree of individual tuition. Acting students are expected to maintain a healthy lifestyle in order to cope with the physical demands and stamina required by the training.

While the course **offers the possibility to meet theatre practitioners on a regular and ongoing basis** as well as the possibility to tour theatres and recording studios, students are encouraged and expected to widen and deepen their knowledge of the contemporary theatre scene by attending professional performances and related events. Being connected to the professional theatre scene right from the beginning of training is a crucial part of the student experience.

Only students who are fully committed to pursuing a career as a professional actor should consider this course. Students who are unsure of their career path at this stage should consider applying for Drama Studies – TR001 or Drama and theatre studies – TR025 (see page 59).

Course overview

This course trains students for careers in professional theatre and related industries. A strong emphasis is placed on training the actor's body as an instrument, as well as nurturing the actor's creative imagination. It is physically demanding and requires a high level of stamina. Students take compulsory developmental modules in Acting & text, Movement studies, and Voice studies in the first two years of the course. In the third and final year of the course **students will be cast in 5 productions, 1 short film and an audition showcase over the course of the year which are performed in front of agents, directors, producers and the general public.**

The Freshman (first two) years

Students in the first two years of the course take compulsory modules in Acting & text, Movement studies and Voice studies. Teaching is by practical workshop and delivered by professional practitioners. In addition there is considerable individual tuition to supplement the workshops in all aspects of the course. Students will also be introduced to the techniques of acting for recorded media (film, radio, television). At the end of the Senior Freshman (second) year students will combine all the skills developed over the two years of training in their first ensemble production to an invited audience.

The Sophister (third and final) year

Students will be cast in a series of 5 theatre productions, directed by professional theatre directors. Each production will have multiple performances over a 10-day period and will play to invited agents, directors, producers, as well as the general public. Further, students will be cast in a short film, directed by a professional film director and filmed both on set and on location. The films will receive a public screening. Students will also perform an audition showcase before an invited audience of agents and directors.

Acting

This is a three-year, full-time, intensive honours degree for anyone who is serious about acting and wants to become an actor. The structure and contents of this degree have been designed in consultation with the Royal Academy of Dramatic Art (RADA) in London and consists of a practical skill based course that enable students to learn by doing. **The UK and Ireland's leading theatre practitioners form the core panel of teachers within The Lir and a number of visiting international directors, actors, playwrights and producers are regularly scheduled to take workshops, manage projects and lend their expertise to the learning experience.** Students will be taught in acting technique, voice, movement, dance, and singing, as well as complementary classes in dramaturgy and text analysis, over nine semesters (three per annum) and over three years.

Is this the right course for you?

Being an acting student at The Lir is completely different to being a student on other drama courses. While students of degree courses in Drama might be in taught classes for approximately 14 hours per week, students at The Lir can expect to be in classes, workshops and rehearsals on average for 35 hours per week, and sometimes more when in production. Training for the theatre at The Lir is founded on the basic principle of simulating the working environment of a professional theatre.

Assessment

Assessment in the Freshman years is based entirely on a series of practical class presentations in all modules. In the final Sophister year, assessment is by a series of public performances.

The Lir – National Academy of Dramatic Art

The Lir was developed by the partnership of the Cathal Ryan Trust and Trinity College Dublin and opened its doors to the first students in September 2011. It is **formally associated with the world-renowned Royal Academy of Dramatic Art (RADA)**.

The training offered by The Lir is closely linked to the ever-changing needs and directions of the theatre industry. The Lir has also fostered close links with the allied professions of film, television, radio and new media. The training is provided by professionals with extensive experience of the industry, in a conscious effort to teach students from the outset the highest level of international professional practice. The depth and breadth of the training is supplemented by guest lectures and workshops from leading international figures of stage and screen.



The training offered by The Lir **takes place in an exciting new building at Grand Canal Dock**, designed specifically for a range of courses in acting, design, directing, lighting design, stage management, technical theatre and playwriting. It features a flexible black box studio with a seating capacity of 150, a more intimate studio with a capacity for 70, a dance studio, technical workshop, and a range of flexible teaching spaces to suit the training of The Lir's young theatre practitioners.

Career opportunities

The course is specifically designed to train actors for the theatre and related professions. **All the training is provided by dedicated theatre professionals with strong industry links.** All of the final year productions and showcases are designed to attract international employment opportunities for the students. There is a strong emphasis in the training on career preparation, and students will be taught not only how to work as an actor but also how to sustain a career as an actor.

Further information

www.thelir.ie

View "The Lir" on  Facebook and  twitter
Tel: +353 1 896 2559

Stage management and technical theatre

PLACES 2013: 15
DEGREE AWARDED: Professional Diploma

Special Entry Requirements:

This is a restricted entry course. Applications must be submitted by 1 February 2014.

This course is taught by The Lir – National Academy of Dramatic Art @ Trinity College Dublin. **It is not part of the CAO application system.** Application forms can be downloaded from the Lir website www.thelir.ie and should be mailed to The Administrator, The Lir National Academy of Dramatic Art, Trinity Enterprise and Technology Campus, Dublin 2, Ireland.

Entry is by interview. Applicants should prepare a portfolio highlighting their theatre experience to date. The final date for receipt of applications is 1 February 2014. Interviews will be held between February and April 2014.

See also:

TR001: Drama studies, page 59

TR025: Drama and theatre studies, page 59

Acting, page 61

Stage management and technical theatre

This is a two-year Level 8 course that aims to equip students of exceptional talent with the skills necessary for a career as a stage manager and/or technical specialist in professional theatre and related industries through the development of skills, professional practices and creative approaches to theatre production.

Is this the right course for you?

Being a student at The Lir is completely different to being a student on other university courses. Stage management and technical theatre students learn by hands-on teaching. Almost 80% of the classes take place in the specially designed workshops and studios at The Lir's purpose built facility. Alongside classes in the principals of stage management, students will participate in practical sessions learning to construct sets and costumes, operate rig, lighting and sound equipment, and operate all of the specialist equipment at The Lir. Students will work on in-house theatre productions at The Lir and on productions in some of Dublin's leading theatres.



Course overview

The course is specifically designed to train technical staff for the theatre and related professions. Through a series of skills-based courses in stagecraft & construction, lighting & sound, properties & propping, stage/production/technical management, film & television, health & safety, technical drawing, make-up and scenic art, the course seeks to equip students with the skills necessary to realise a theatre production. Classes in theatre history, set & costume design, will complement the skills-based courses in their analysis of historical periods, styles, forms, conventions and practices with a view to developing the intellect and the encouragement of a reflective practitioner. A spirit of enquiry and discovery through research and its practical presentation further seeks to encourage the life-long learning processes necessary for sustaining a career in the theatre and allied professions. All teaching will be provided by dedicated and experienced theatre technicians and stage managers, and will reflect best practices in professional theatre.

Assessment



Assessment is based primarily on a series of practical demonstrations in all modules.

Career opportunities

All of the training is provided by dedicated theatre professionals with strong industry links. Opportunities are provided in the second year to focus on one of the many skilled specialisms in the area of technical theatre. **Professional placements** throughout the training introduce students to the industry and enhance employment prospects.

Further information

www.theilir.ie

View "The Lir" on  Facebook and  twitter
Tel: +353 1 896 2559

Economics

COURSE CODES:	TR001 (TSM)
PLACES 2013:	43
POINTS 2012:	475*-580*
DEGREE AWARDED:	B.A.
TSM points:	See page 31

Special Entry Requirements:

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

Economics (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. See page 40 for a list of subjects that combine with Economics.

Alternatively, Economics can be studied through the Business, economic and social studies (BESS: TR081) programme or the Philosophy, political science, economics and sociology (PPES: TR015) programme.

Within BESS, after a common first-year students choose 6 courses in the second year and then proceed to either specialise in economics or to combine economics with one of business studies, political science or sociology. For further details see page 41.

Within Philosophy, political science, economics and sociology, after a common first-year students choose 3 subjects in the second year, 2 subjects in the third year and either one or two subjects in the fourth year. For further details see page 102.

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.

Is this the right course for you?

Economics at Trinity College appeals to students with a wide range of interests. If you are interested in current economic affairs, both national and international, in understanding how government action might be used to pursue economic and social goals such as lowering unemployment, reducing poverty or assisting the Third World, you will find the Economics curriculum stimulating. If you enjoy abstract thinking and are considering engineering or physics, for example, you should also consider Economics as a degree option.

Course content

The Freshman years

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 Junior Freshman year, students have approximately 7 hours of lectures and 3 hours of tutorials per week in economics. In the Senior Freshman year students also study the main features, performance and associated policy issues of the Irish economy in the late 1990s and early 2000s. Students have approximately 6 hours of lectures and 3 hours of tutorials per week in economics. Students will, of course, have a somewhat similar amount of lectures and tutorials in their other subject.

The Sophister years

The great strength of the Sophister (third and fourth year) programme in economics is its flexibility. There is a wide range of courses on offer and, within the framework of either a single or joint honors degree, you can put together a package that best reflects your interests and future career goals. Those interested in banking, finance or accountancy can choose a finance-orientated set of options; those interested in a career in politics, journalism or the public sector will find a range of courses that integrate analysis and policy; those intent on a business career or a position in industry can opt for a package emphasising courses in industrial economics and industrial organisation; while those wishing to pursue a research or academic career might wish to choose the more quantitative and analytical courses.

Within the Junior Sophister (third) year students have approximately 6 hours of lectures and 2 hours of tutorials per week in economics. Within the Senior Sophister (fourth) year, students have approximately 4 hours of lectures and 1 hour of tutorials per week in economics. Students will, of course, have a somewhat similar amount of lectures and tutorials in their other subject. Those students specialising exclusively in economics have approximately 8 hours of lectures and 2 hours of tutorials per week in the Senior Sophister year.

Assessment

All courses in the first three years are assessed by a combination of continuous assessment (tests or essays) and the formal end-of-year examination. Fewer courses are required in the Senior Sophister year so as to facilitate time for more independent work. Project work is a very important component of almost all courses within the Senior Sophister year; this project work allows students to achieve a very high level of expertise in a number of specific areas and greatly facilitates students when setting out on their career paths. In addition, students specialising exclusively in economics in the Senior Sophister year may choose to complete a dissertation on a chosen topic.

Study abroad

Students have the opportunity to spend some time in their third year studying in partner institutions in Australia, France, Belgium, Germany and the Netherlands for either an academic year or for half an academic year; the majority of outgoing students go abroad for half an academic year.

Career opportunities

About a third of graduates go on to further study either in Ireland or abroad. Over the years Trinity College's economists have made distinguished careers all over the world in business, finance, journalism, law, politics, the public service, and in leading universities.

Did you know?

- The courses and programmes offered by the Department reflect its excellent record of research and publication, particularly in international macroeconomics, applied economics, economic history, and the history of economic thought.
- **Trinity College Dublin is ranked in the world top 100 universities for Economics & Econometrics** (by the QS World University Rankings 2013).

Further information

www.tcd.ie/Economics

Tel: +353 1 896 1043

Student profiles: see course description at:

www.tcd.ie/courses

English literature and English studies

COURSE CODES:	TR023	TR001 (TSM)
PLACES 2013:	40	85
POINTS 2012:	510*	535-585
DEGREE AWARDED:	B.A.	

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate	HC3	English
Advanced GCE (A-Level)	Grade C	English literature (A or B) or English language (A or B)

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

TR001 – English literature (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with English literature see page 40.

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 students to develop a sophisticated critical consciousness and an awareness of critical and cultural theory. Compared to English literature (TSM) students, English studies students study literature in terms of developing genres (Poetry, the Novel, Theatre, the Essay) and they also cover a longer historical range, including literature from before 1400.

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 students acquire a thorough knowledge of the history of differing literatures while also enabling them to develop a sophisticated critical consciousness and an awareness of critical and cultural theory.

While TSM students cover all the principal areas of literatures in English, the course is less extensive than that of the single honor programme, with less emphasis on the development of genres, and a concentration on the modern period (post 1400).

Is this the right course for you?

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

English at Trinity College

The School of English is strongly committed to **small-group teaching**. In the first two years teaching is by a combination of lectures and related tutorials. For TSM students, lectures will typically have a maximum of around 150 students, while single honors only lectures will typically have a maximum of around 50. All Freshman (first and second year) lecture modules are supported by small-group teaching dedicated to that module only, and **the numbers for tutorials are around 12 students**. In the Sophister (third and fourth) years, most of your English modules are chosen by you from a wide range of available options, and most are taught through seminar discussion. There is a maximum of around 22 students in each seminar.

Our English courses have been designed to develop independence of critical thought and the articulation of informed discussion, both oral and written. Much of your work will be undertaken independently, and you will have at your disposal the resources of a **world-famous library**.

The School of English also coordinates many non-syllabus activities, such as lecture series, conferences and symposia, guest lecturers (such as Anne Enright, winner of the 2007 Man Booker Prize, and Professor Harry Clifton, The Ireland Chair of Poetry) and visiting writers. **Richard Ford**, the Pulitzer prizewinning author, and **Sir Terry Pratchett**, the bestselling satirist and fantasy writer, are both Adjunct Professors in the School.

The School actively supports several journals of creative writing by undergraduates. In this way we ensure that your time studying English at Trinity College is exciting and intense.

Course content

The English courses are designed so that the first two years consist almost entirely of compulsory modules, taught mainly through a combination of lectures and tutorials. Students take a variety of modules, based on period, genre, theme and nationality. Theories of literature is one of the major modules in the first year. **After the first two years, students are free to construct their own course** in the advanced work that will lead to their degree.

Our commitment to small-group teaching means that you will benefit from close personal staff supervision, so that your writing and discussion skills develop. The model of assessment means that from short first-year essays of around 1,500 words, you will by your final year be prepared to tackle major independent research projects of up to 12,000 words. Individual 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 modules provides you with an introduction to a variety of critical theories, practices and approaches to literature. You will primarily concentrate on selected prescribed texts.

Examples of Freshman modules include:

- Theories of literature
- Irish writing
- Enlightenment
- Romanticism
- Genre: The novel
- Medieval and Renaissance romance
- Shakespeare: Text, stage, screen
- Introduction to postcolonial literature and theory
- Victorian literature
- Introduction to Modernism

The Sophister years

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

Examples of Sophister modules may include:

- Literature of the American South
- Ulysses in contexts
- African and Caribbean literature
- Irish writer and society
- Post-war British fiction
- 20th century women novelists
- Shakespeare and sexuality
- Modernism
- American letters
- Children's literature
- Popular literature
- Contemporary Irish literature
- Creative writing
- Digital Humanities
- Dissertation

Assessment

Assessment is by a combination of submitted essays or dissertation and end-of-year examinations. The weighting is approximately 50% submitted work and 50% exams.

Did you know?

- **Trinity College Dublin is ranked 28th in the world in English Language & Literature** (by the QS World University Rankings 2013).



Study abroad

The School of English has strong international links with many English departments abroad, including active participation in the Erasmus exchange programme with universities in Austria, France, Italy, Spain, Switzerland and the UK. We also have an agreement with Dartmouth College in the US, and there are scholarship opportunities which allow students to spend a year at prominent US universities, notably Berkeley, Boston College, and Georgetown.

In addition to the opportunity to study abroad, our exchange links, which attract many international students, ensure that the student body in English is vibrant and cosmopolitan.

Career opportunities

The skills of English graduates are much in demand from employers, especially in journalism, broadcasting, marketing, retail and business management, publishing and teaching, and graduates from English often gain professional qualifications in disciplines as diverse as law, accountancy, public relations and clinical speech.

The four-year degree provides an outstanding platform for postgraduate study in English, and usually about 30% of our graduates go on to read for a higher degree in English (Master's degree, PhD degree). Many well-known creative writers are Trinity College English graduates, including Eavan Boland, Deirdre Madden, Michael Longley, Derek Mahon, Brendan Kennelly and Eiléan Ní Chuilleanáin.

Further information

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

Head of School:

Eve Patten
Tel: +353 1 896 1299
E-mail: epatten@tcd.ie

European studies

COURSE CODE: TR024
PLACES 2013: 45
POINTS 2012: 545
DEGREE AWARDED: B.A.

Special Entry Requirements:

Applicants must present with at least one European language (other than English and Irish) in the Leaving Certificate (or equivalent).

If candidates are presenting one language (other than English or Irish), they must attain a grade of HB3 or higher.

If candidates are presenting two or more languages, they must attain at least the following grades:

Leaving Certificate	HC	In two of French, German, Greek, Italian, Latin, Polish, Russian, Spanish
	HC1	If presenting French or German
	HC2	If presenting Spanish and taking Spanish as a non-beginner
	HC3	If presenting any other language
Advanced GCE (A-Level)	Grade B	In one language other than English or Irish
	Or Grade C	In two languages other than English or Irish (as listed above)

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

Italian, Polish, Russian and Spanish are available from beginner level. No student may study more than one language as a beginner. See note 8 on page 35.

See also:
 TR001: TSM, page 40

What is European studies?

At Trinity College European studies is a broad-ranging, fully integrated multidisciplinary programme which encompasses the history, culture, languages and politics of European nations. It studies the European past in order to understand the present, and examines contemporary Europe in all its complexity on a continent-wide basis.

Is this the right course for you?

If you enjoy studying languages 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 and who are interested in a range of disciplinary approaches.

Course overview

You will study two out of six European languages: French, German, Italian, Polish, Russian or Spanish (Italian, Polish, Spanish and Russian can be studied from beginner level). Both languages are studied equally in the first two years, after which one becomes your major, and the other your minor language. Language learning is embedded in the study of the society and culture of the countries in which the language is spoken and language study is designed to meet the needs of students specialising in the social and political sciences. Literature is studied in the final year.

As well as languages you will study the European past and present through three disciplines – history, history of ideas and social sciences (politics, economics and sociology). The history of ideas teaches the evolution of European thought and culture from the Renaissance to the present and is the compulsory core component in the first, second and fourth years.

Course content

In first year all components are compulsory. From the second year onwards the history of ideas, or cultural history, is compulsory and you will be able to choose other modules 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 There are approximately 22 hours of classes per week.	Senior Freshman (second) year There are approximately 22 hours of classes per week.
Languages 1 & 2: Grammar and structures of the languages, written and spoken expression and comprehension	Languages 1 & 2: Grammar and structures of the languages, written and spoken expression and comprehension
Introduction to the history of ideas Introduction to the evolution of European thought and culture in the 20th century, and to the techniques of analysing texts in their historical context. This module examines the intellectual and cultural climate in Europe before and after the two World Wars.	Culture and politics in Europe 1700-1815 Studies the emergence and development of modern society and culture since the Enlightenment. The core of the course concerns itself with political culture by analysing the political ideologies created from, and in opposition to, the French Revolution.
Europe, c. 1500-1700: Power and belief Examines the political, social and cultural history of sixteenth and seventeenth-century Europe.	The making of Modernity 1750-1820 Introduces students to key concepts of modernity as they constituted themselves during the saddle epoch around 1800. It covers the main philosophical and cultural trends in the European Enlightenment and Romanticism and elucidates how cultural and aesthetic discourses interact with politics and society. It follows and builds on the History module 'Culture and Politics in Europe 1700-1815'.
Introduction to social science This module offers students an introduction to the significant issues in the three main fields of social science: politics, economics and sociology. The first section of the course introduces key debates in sociology about European social structure. The second section provides an introduction to main issues in political science of significance to students of European politics. The third section builds on the first two sections by paying attention to issues surrounding the economics of the EU.	Select one of: <ul style="list-style-type: none"> ■ History of Continental Europe since 1870 Social, economic and political history are given equal emphasis in this course, which concentrates on Germany, France and Russia, as well as looking at Italy and Spain. ■ Comparative politics This module is an introduction to the study of comparative politics. We will be studying both developing and developed countries, democratic and authoritarian regimes as well as countries that are in the midst of political and economic transitions. ■ International relations This module is an introduction to the positive, descriptive study of international relations. This module looks at differing theoretical approaches to international relations and a selection of topics in historical and contemporary politics, including the United Nations, the World Trade Organisation, the European Union, and international environmental and human rights regimes. ■ European societies This module examines different forms of social inequality in Western Europe, the divisions of class, region, gender, ethnicity and life cycle. It considers the extent to which the European Union involves a European social model of social cohesion – a particularly European way of countering the divisions of a market society. The course uses case studies from France, Germany, Italy, Sweden and the UK. ■ Intermediate economics* The module takes both a macroeconomic and microeconomic approach. The module covers consumer theory (indifference curves and budget constraints); producer theory (isoquant curves and isocost lines); market structure (perfect competition; monopoly; monopolistic competition and oligopoly); game theory; factor markets (in perfectly competitive and imperfectly competitive settings) and general equilibrium. <p>* Students who wish to take this course must seek permission from the Head of the Department of Economics during the Trinity (third) Term of their Junior Freshman (first) year, before declaring their Senior Freshman (second year) subject choice.</p>

Junior Sophister (third) year

The Junior Sophister year is spent at a university abroad studying through the language you choose as your major language and this is an integral part of the course. Exchanges have been established with history and political science departments in universities in France (Paris, Strasbourg, Grenoble, Bordeaux), Germany (Hamburg, Tübingen, Freiburg), Italy (Pavia, Siena, Florence), Poland (Krakow), Russia (Moscow) and Spain (Seville, Salamanca, Alcalá). The year abroad may entail additional expenses for students but support funding under the European Union's Erasmus scheme partially offsets this additional expense (with the exception of Russia, where the Erasmus scheme does not apply).

Senior Sophister (fourth) year

In the Senior Sophister year, language work focuses predominantly on your major language. Coursework for your minor language concentrates mainly on comprehension and textual analysis. 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 modules from history, political science, sociology, and a number of culture and literature options from the language departments. Students who so wish are encouraged to write a ten thousand word dissertation (replacing one of the options) on a subject of their own choice under the supervision of a member of staff.

Assessment

Written, oral and aural exams are combined with continuous assessment, essays and end-of-year examinations.

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. Other popular career paths are in law, consultancy, teaching (in Ireland and abroad), translating and interpreting, 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 1 896 1808

E-mail: european.studies@tcd.ie

Student profiles: see course description at:
www.tcd.ie/courses

Film studies

COURSE CODE: TR001 (TSM)

PLACES 2013: 30

POINTS 2012: 410-540

DEGREE AWARDED: B.A.

TSM points: See page 31

Film studies cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects.

For subjects that combine with Film studies, see page 40.

Overview

Since 2003 Trinity College has pioneered the Republic of Ireland's first specialist undergraduate Film studies course leading to an honors degree. The four years of the course allow students to sample a wide range of film movements and film styles and to gain some experience of practical filmmaking. Through lectures, class discussions and practical courses, students will gain a wide knowledge of film as art, as industry, and as creative practice. **The staff in the Department of Film Studies are experts in their fields and publish widely. We will be joined in the academic year 2013/14 by a new lecturer in Screenwriting, allowing us to develop our teaching in this area.**

Is this the right course for you?

If you enjoy watching a wide range of films and if you are interested in acquiring the critical tools to analyse them in relation to questions of style, technology, society, and industry, then this is the course for you. This course will examine film styles and movements from cinema's beginnings in 1895 right up to the present day. While you will learn about practical issues involved in film production, including how to write a script and how to produce short videos, this course is primarily academic and geared toward critical engagement with film.

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 a very broad range of American, European and world cinemas. In the Sophister (final two) years, students choose from a wide range of options. Topics may include various national cinemas, transnational cinemas, classical and contemporary Hollywood cinema, genre studies, documentary theory and practice, avant-garde, experimental, and cult cinema, film theory and criticism, cinema and censorship, and editing. In addition, Sophister **students will complete modules in scriptwriting and digital video production.**

The Freshman years

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

- **Film theory and criticism**

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

- **American cinema from the 1890s to the 1960s**

This module introduces aspects of American cinema in the first half of the 20th century by considering classical narrative structures, important industrial developments and key generic texts. The second part of this module introduces the student to influential examples of film criticism that American films from this period have generated. Film genres examined may include the Western, the melodrama, the musical, the gangster film and science fiction films of the 1950s.

- **European, Irish and world cinemas**

These modules serve as an introduction to a variety of national cinemas from around the world. They will examine the relationship between nations and the cinemas that they produce, or through which their national identities, societies and cultures are projected. In their second year of the degree, students will be given the opportunity for a more detailed consideration of some of the issues raised.

- **Introduction to screenwriting and digital video production**

These modules introduce students to the basics of film production.

There are six hours of classes and six hours of screenings per week.

The Sophister years

In the final two years of the degree course students can choose from the wide range of optional modules available to them. Topics covered may include aspects of Hollywood cinema, avant-garde and experimental cinema, documentary film, European cinemas, film music, world cinemas, genre studies, gender and film, film theory and criticism, film style and performance, digital filmmaking, editing and other aspects of film practice. **In their final year, film students come together with students from Drama and Music in an optional module to make short films involving all disciplines.** Completed student films are available for viewing on our website.

Assessment

Film studies is assessed by coursework and examinations. In the Freshman years, students will also be assessed on class presentations.



Filmmaker-in-residence, Lenny Abrahamson, on the set of Garage. The Department of Film Studies will hold a number of workshops with Lenny Abrahamson during the year.

Career opportunities

A degree in Film studies offers career opportunities in many areas such as the film industry; television; journalism; digital media; film reviewing and criticism; arts administration; advertising; marketing. Recent graduates of Film studies at TCD have gone on to be involved in the film industry in a number of ways, from directing feature length films to editing, scriptwriting, production and administration. A number of our graduates have gone on to further study in film and associated areas. This degree also offers opportunities in the many general areas open to arts graduates, such as administration, teaching, civil and public service, etc.

Further information

www.tcd.ie/film
Tel: +353 1 896 2617
E-mail: filmstds@tcd.ie



Graduate Profile

Neasa Hardiman

Writer Director for film and television

Neasa Hardiman is an award-winning film and television Writer-Director. Her work has screened throughout the world and has won a BAFTA, two RTS awards and several other international prizes. Most recently she was nominated for a second BAFTA as well as winning the Best First Feature screenplay prize at the London Film Awards. Neasa acts as Advisor to the Media ScriptEast initiative, fostering the best in European film. She holds a Masters in Aesthetics and Politics and a second, scholarship-based Masters in Visual Communication from the Universität der Künste Berlin. She is currently completing her PhD in Film at Trinity.

“I chose to study film at Trinity because of its reputation for excellence. The students and professors at the University have a history of robust engagement with ideas, and the library and academic facilities are unsurpassed. My studies at Trinity gave me the opportunity to broaden and develop my cinematic frame of reference, as well as equipping me with the ability to articulate and defend my creative ideas. Delivering my ideas from the podium at international conferences helped me to hone my thinking, as well as offering me unparalleled opportunities to discuss and develop my work with scholars from all over the world.

Outside the formal curriculum, organisations like Trinity Players and the Film Society offer great opportunities to experiment to a high standard in drama, film and music. The many friends I made in this way at Trinity continue to inspire me through formal and informal collaborations.

My studies at Trinity gave me the opportunity to explore, experiment and exceed my previous limits. Through my time here, I learned to develop a robust creative vocabulary.

My Trinity experience honed my ability to develop and defend my own ideas, and kick-started my successful career in film and television.”

French

COURSE CODE:	TR001 (TSM)
PLACES 2013:	84
POINTS 2012:	400*-580*
DEGREE AWARDED:	B.A.

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate	HC1	French
Advanced GCE (A-Level)	Grade C	French

French (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with French see page 40.

Alternatively, French may be selected as one of the two languages studied in the European studies programme or studied as the chosen language of either the Computer science and language, the Business studies and a language, or the Law and a language degree programmes.

See also:

TR011: Computer science and language, page 124

TR018: Law and French, page 91

TR024: European studies – French with German/Italian/Polish/Russian or Spanish, page 67

TR085: Business studies and French, page 44

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.

Course overview

French, read in combination with another subject, is designed to provide you with a thorough grounding in all aspects of French language and culture. 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, forms an integral part of this course.

Course content

Language instruction – including computer-based elements – forms the backbone of the teaching programme. 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. Examples of optional subjects available over the course of the four years include French linguistics, literature, ideas and politics.

The Freshman years

The programme in the Junior Freshman (first) year includes an introduction to aspects of contemporary France, the French language and literature. 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 five hours each week working on language and grammar and approximately two hours each week studying literature and other course-work.

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

The Sophister years

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

Assessment

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

Study abroad

A minimum stay of **two months in a French-speaking country** is required over the duration of your course. Some students opt to spend their second or part of their third year at a university in France within the framework of an Erasmus exchange programme. There are exchange agreements between Trinity College and universities in Orléans and Paris.

Career opportunities

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

Further information

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



Geography

COURSE CODE:	TR001 (TSM)
PLACES 2013:	45
POINTS 2012:	415-580
DEGREE AWARDED:	B.A.

TSM points: See page 31

Geography (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects.

For subjects that combine with Geography see page 40.

Alternatively, Geography can be studied through the general-entry Science programme – TR071. After two years of general science study, students may opt to specialise in Geography for their third and fourth years. For special entry requirements to TR071 – Science see page 143.

Geography may also be studied with Political science, see page 104, or as part of the single honor course Earth sciences (TR077) course, see page 163.

Why study Geography?

Geography is truly interdisciplinary as it spans a broad spectrum of the social, biological, informational and physical sciences. As the world becomes interconnected, geographers are well placed to bring their understanding and skills to bear on social and environmental issues. An important attribute of geographers and one that is highly regarded in the workplace, is their ability to combine multidisciplinary knowledge with a wide range of transferable skills, including critical thinking, report-writing, numeracy and IT-literacy. These can be applied to careers which directly incorporate a geographic dimension, such as environmental consultancy or urban planning, and to wider areas such as business and public service.

Course content

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

In the Junior Freshman year, students take three introductory modules in geography:

- **Physical geography:** provides a basic introduction to the large-scale controls and processes that have influenced the physical landscape of the earth, and that have provided the conditions for the evolution of a variety of life forms, species, habitats and ecological systems including those that led to and subsequently influenced human existence.
- **Human-Physical environment interface:** introduces key concepts relating to nature, culture and the environment, and interactions between humans and their environment, using case studies from the fields of conservation, environmental degradation and environmental hazards.
- **Human:** introduces the subjects of global urbanisation, the socio-spatial structure of the world economy and the processes generating variations and changes in levels of human well-being. It also examines aspects of globalisation including the realities of living in a 'shrinking world' and the emergent 'black holes of globalisation', as well as considering the nature of development.

Participation in lectures and seminars is in line with other TSM subjects. Certain practical exercises are completed outside the allocated class time.

The Senior Freshman (second year) geography modules cover issues relating to cultural, economic and historical geography, and to natural and human-modified environmental processes and systems. Research skills are developed further through the collection and analysis of geographical data module which includes a fieldwork component.

The Sophister years

For details of modules in the Junior and Senior Sophister (third and fourth) years, see page 152. Students may also opt to take a number of modules outside Geography in their Sophister years.

Assessment

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

Study abroad

There are opportunities for students to spend all or part of the third year studying abroad at Exeter, Bordeaux, Paris, Utrecht or Stockholm universities.



Career opportunities

A wide range of career options is potentially available to Geography graduates. The combination of a broad-based discipline and training in highly relevant transferable skills is valued in today's job market, where adaptability and flexibility are widely regarded as assets. Careers taken up by graduating Geography students in recent years include urban and regional planning, environmental consultancy and research, teaching and overseas development as well as positions in such areas as financial services (including insurance), foreign affairs, leisure and tourism.

Did you know?

- In recent years, Sophister year Geography students have been involved in fieldwork in Iceland, Mallorca and Zambia, and in making digital video documentaries as part of their assessed work.

Further information

www.tcd.ie/Geography

Tel: +353 1 896 1576

Student profiles: see course description at:
www.tcd.ie/courses

German

COURSE CODE:	TR001 (TSM)
PLACES 2013:	32
POINTS 2012:	420-555
DEGREE AWARDED:	B.A.

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate	HC1	German
Advanced GCE (A-Level)	Grade C	German

German (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with German see page 40.

See also:

TR019: Law and German, page 91

TR024: European studies – German with French/Italian/Polish/Russian or Spanish, page 67

TR039: Computer science and language, page 124

TR086: Business studies and German, page 44

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 and the world. 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 within the two-subject moderatorship course 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. You will be encouraged to develop specialist interests by choosing from a wide range of optional subjects. All this in a **small, friendly, award-winning department with a wide extra-curricular programme including a theatre group, debating, and film evenings.**

Course content

The Freshman years

There are approximately 10 hours of classes per week in the Junior Freshman (first) year. The course covers three key areas:

- **Language programme:** this builds on the written, oral and aural skills you acquired at school and develops both fluency and accuracy in expression. Your language learning is supported by a specially developed e-learning programme on the departmental website: try it at www.tcd.ie/Germanic_Studies/jfgermanlanguagewebsite/index.htm
- **Area studies** provides an introduction to society, political and cultural issues and current affairs in modern Germany, Austria and Switzerland.
- **Literature and textual studies** introduces you to key aspects of modern German literature and to reading and analysing literary and non-literary texts in German.

In addition to your on-going language classes, the Senior Freshman (second) year introduces you to German cultural history (exploring topics such as the development of the nation, the role of religion and religious difference, militarism and pacifism, and Nietzsche and Freud as key thinkers of modernity) and German literary history. You can also begin to develop your own special fields of interest within the programme, choosing from a range of seminars with a literary, linguistics, cultural or historical focus.

The Sophister years

In the Junior Sophister (third) year, alongside your language classes, you will take a module in the modern history of German literature and choose from a number of seminars in specialist areas of literature, linguistics, cultural and historical studies.

If you elect to study German in your 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 year, you will also research and write a dissertation on a topic of your own choice. This can be drawn from literature, intercultural communication or some other aspect of the course that you have particularly enjoyed and is an exciting opportunity to develop your interests in depth.

Assessment

At all levels, you will be assessed by a combination of project and essay work and end-of-year written, oral and aural examinations. Senior Sophister students also write a 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 an Erasmus or similar exchange programme in your second year or between third and fourth year (our links include Cologne, Göttingen, Konstanz, and Vienna, but you can also make individual arrangements), or taking a year out to work in a company 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 also their 'transferable skills': the mix of accuracy and creativity, confidence and sensitivity which marks the advanced linguist, and the maturity, flexibility and broadened understanding that comes from engaging with another culture and from the experience gained abroad. Recent graduates are working for employers such as Google, Deutsche Bank and Enterprise Ireland as well as in telecoms, IT, education, public service, the media, and universities in Ireland, Europe and North America. Germany is a major export destination for Irish goods as well as being the second most important source of Foreign Direct Investment for Ireland. Therefore, competence in German can give you a competitive advantage in the job market.

Did you know?

- Trinity College's Department of Germanic Studies has won four prestigious awards in recent years, including The European Award for Languages in 2010.
- We offer Peer tutoring and a networking website 'GradLink' where **you can link up with our graduates from all over the world and learn from their experiences**.
- If you are considering studying German, but want to be sure, **you are welcome to sample some lectures** in the department during teaching terms. You may also discuss your options with a member of the teaching staff. Contact us by e-mail or phone (see below).

Further information

www.tcd.ie/Germanic_Studies

E-mail: germanic@tcd.ie

Tel: + 353 1 896 1373

Student profiles: see course description at:

www.tcd.ie/courses

History

COURSE CODE:	TR003	TR001 (TSM)
PLACES 2013:	38	40
POINTS 2012:	485	530*-555*
DEGREE AWARDED:	B.A.	

TSM points: See page 31

TR003 (single honor History) – This is a course where History is studied, analysed and written in increasing depth for four years.

TR001 – History (TSM) – In this course History is combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with History see page 40.

All History students select modules from the same lists but while TSM, and History and Political science students cover all the principal areas of history, the workload is less intense than that of the single honor programme – TR003.

Note: History (TR003) is one of three courses that are part of the feasibility study in admissions, and 10 places will be filled under this new route. For further details see page 26.

See also:

TR001: TSM, page 40

TR009: Music education, page 99

TR012: History and political science, page 79

TR027: Irish studies, page 84

TR028: Ancient and medieval history and culture, page 78

Is this the right course for you?

If you are interested in discovering our past, in developing critical perspectives on historical interpretations and in working toward the development of new ideas about our past, this course is for you. History at Trinity College aims to encourage the greatest possible critical independence among students – who encounter the latest techniques and methods of historical research while studying with us.

Course content

The History programme at Trinity has been constructed on clear pedagogical and intellectual principles. In the first two years we provide you with a systematic knowledge of European and Irish history, with options in American and Asian history too. We introduce you to social, political, economic and cultural themes of relevance and we do so in lectures and in our **renowned small group tutorials**. In the second part of the programme (the Sophister years) a very wide degree of choice is made available. Teaching is led by a world-class staff actively engaged in research on topics taught. An independently conceived and researched dissertation is a key element of the final year.

The Junior Freshman (first) year

Single honor (TR003) students take half-year options from the areas outlined below, amounting to the whole study requirement for their academic year.

Students in the TSM (joint honor) programme take half-year options from the areas outlined below, amounting to half their study requirement for the academic year.

- Doing history
- Interpreting history
- Europe, 1000-1250: War and society in the age of the Crusades
- Ireland, 1000-1250: Brian Boru to the English invasion
- Britain, c.1066-1296: Conquest and domination
- Europe, 1000-1250: Conflict of church and state
- Ireland, 1250-1500: Gaelic revival and the English Pale
- Britain, c.1296-1603: Nations and kingship
- Europe, c.1500-1700: Power and belief
- Britain since 1815: Political traditions
- American history: A survey
- South Asian history: An introduction
- Modern language electives – Students choosing this option must enroll on the Broad Curriculum website: www.tcd.ie/Broad_Curriculum

The Senior Freshman (second) year

You may choose from a wide variety of modules, listed below. Each module runs for half of the academic year. Single honor students select six modules (or equivalent), while Two Subject Moderatorship (TSM) students select three modules (or equivalent).

- Anglo-Saxons, Vikings and their impact on Britain and Ireland, c.400-1000
- Europe, c.1215-1517: Religion, death and culture
- The Hundred Years War, c.1337-1453
- Ireland and the early modern age, 1534-1641
- Ireland transformed, 1641-1815
- Europe, 1700-1815: Culture and politics
- Ireland and the union, 1801-1922
- Europe, 1870-1930: Grandeur and decline
- Europe since 1914: Cataclysm and rebirth
- Ireland in the Twentieth century
- The rise and fall of the British Empire
- Themes in modern American history

Students may substitute one of the following year-long modules for one of their history modules:

- History of political thought
- The economy of Ireland

For further information about these modules see our website www.tcd.ie/history and www.tcd.ie/Broad_Curriculum

The Sophister (third and fourth) years

We offer a range of subjects within three different categories:

- **List I modules** – these are primary source-based specialist modules which involve intensive research and writing.
- **List II modules** – these are primarily historiographically-based special subjects which relate to the concepts, methods and debates of modern-day historians.
- **List III modules** – these are broader thematic and analytical modules based upon a combination of primary materials and secondary commentaries.

Those studying single honor History choose one module from each list in their Junior Sophister (third) year, plus the module ‘Thinking history’. Further choices follow from List I and III in the Senior Sophister (fourth) year. The research dissertation is undertaken in the Senior Sophister year.

Those studying TSM History choose one module from Lists I and II, plus ‘Thinking history’, in their Junior Sophister (third) year. TSM students normally follow the same pattern as single honor students in the Senior Sophister year.

List I, II and III modules arise from the specialisations of the teaching staff and vary from year to year. Current options include:

- The reign of Charlemagne
- Viking Dublin
- Viking raiders to crusader warriors: Scandinavia, 800-1200
- The archaeology of medieval warfare, 1000-1300
- Empire and papacy in the eleventh century
- The English in medieval Ireland
- Edward I, Edward II and the conquest of Britain, 1286-1328
- Medieval religion, c.1215-1517
- Renaissance Florence, c.1347-1527
- Europe reformed, 1540-1610
- The Elizabethans and their world, 1550-1610
- The fall and rise of France, 1550-1700
- From rebellion to restoration: Confederate and Cromwellian Ireland
- The nobility in early modern Ireland
- Revolutionary Britain, 1678-1715
- Ireland in the age of O’Connell, 1775-1847
- The French Revolution
- Eighteenth-century Dublin
- Ireland and Empire
- History writing in Britain and Ireland, 1820-1920
- Slavery in American history
- Sub-Saharan Africa since 1875
- France since 1880: Society and culture
- Race and ethnicity in American thought since 1880
- The impact of World War 1 on Ireland and Britain
- France and the First World War, 1912-1920

- The Weimar Republic
- Writing the history of the Irish revolution
- Literature and politics in modern Ireland
- Ireland in the 1920s and 1930s
- Popular culture in twentieth-century Ireland
- American politics and culture, 1939-1989
- South Asia since 1947
- Ireland, Britain and America during the Cold War and beyond, 1948-1998
- The Troubles, 1968-1998

Assessment

Assessment is primarily essay- and exam-based. Assessment of the final-year dissertation accounts for one third of the final-year mark.

Study abroad

The Department of History has Erasmus exchange agreements with universities in France, Germany, Italy and the United Kingdom, as well as exchange programmes with American and Australian universities.

Career opportunities

Over many decades History graduates (single honors and TSM) have pursued successful careers in a wide range of areas. These include: accountancy, advertising, banking, broadcasting, cultural, arts and heritage administration, human resources, journalism, law, public administration, public relations, management, marketing, publishing and teaching.

Did you know?

- Trinity College teaches political, military, social, economic, cultural and intellectual history; it specialises in the histories of several countries – Ireland, Britain, France, Germany and America; and it offers modules in African and Asian topics too. Areas of study range in chronological breadth from the Middle Ages to the contemporary period.
- **Trinity College Dublin is ranked 33rd in the world in History** (by the QS World University Rankings 2013).

Further information

www.tcd.ie/history

Tel: +353 1 896 1791 / 1020

Ancient and medieval history and culture

COURSE CODE:	TR028
PLACES 2013:	15
POINTS 2012:	405
DEGREE AWARDED:	B.A.

Note: Ancient and medieval history and culture (TR028) is one of three courses that are part of the feasibility study in admissions, and 5 places will be filled under this new route. For further details see page 26.

See also:

TR001: TSM, page 40

TR003: History, page 76

TR012: History and political science, page 79

Course overview

Ancient and medieval history and culture offers you a unique opportunity to investigate the cultural and political genesis of Europe by focusing on the fascinating transition from the ancient to the medieval world (2000 B.C. - 1500 A.D.). In this course you will be able to trace this extraordinary process through an intensive study of the art, archaeology, culture and history of the ancient and medieval worlds, familiarising yourself with key events, issues and mentalities. You will be encouraged to pursue an interdisciplinary approach to your studies, as well as to appraise critically the art and material culture of the period and the documentary sources in translation.

Is this the right course for you?

If you want to understand how Europe began to become what it is today, then this course will be of interest. Also, if you have a particular curiosity about the way in which cultural, social and political issues have been confronted by societies in the past, then this too is the course for you.

Course content

Over the four years you will develop a broad understanding of the ancient and medieval worlds through an analysis of their art, architecture, archaeology, culture and history. These disciplines will be introduced to you in first-year courses, taught by a mixture of lectures and tutorial discussion groups. As your studies progress, your courses become more thematically specialised, with an increasing emphasis on intensive discussion and independent research.

The Junior Freshman year

In the Junior Freshman (first) year you will take a combination of courses in Ancient history, Art history and Medieval history, dividing your time equally between the three disciplines. In total, there are approximately twelve hours of timetabled study per week. It is possible to substitute the courses in Ancient history to take Latin at beginner's or advanced level.

- **Ancient history** introduces key aspects of Greek and Roman art, archaeology, architecture, history and mythology. Topics covered include the Athenian invention of democracy; Rome's emergence as an imperial power; war, conflict and colonisation; and the social context of art and architecture, including the legacy of Greek and Roman artistic expression.
- **Art history** surveys key developments in painting, sculpture and architecture. You will be introduced to topics ranging from the mosaics in the Italian city of Ravenna to the great cathedral of Chartres in France – but not forgetting too The Book of Kells in TCD itself.
- **Medieval history** begins with a survey of Europe between 1000 and 1250, covering the key political, social and cultural developments of the period, including the growing importance of kings and kingdoms, and the many conflicts of the medieval world – including the Crusades.

The second and third years

In the second year all students are required to take the three compulsory modules: Europe, 1250-1500: Religion, death and culture; Greek history or Roman imperial history; Medieval art. The remaining modules are chosen from a range offered by the three disciplines, for example Irish, British and European medieval history, Latin (if taken in first year), architectural history, and the archaeology of the Greek and Roman worlds.

In their third year all students take the interdisciplinary module on the ancient and medieval city Rome, which is taught by specialists from the three disciplines. The remaining modules must include at least one module from each of the three main subject areas. The selection currently offered includes: Aegean Bronze Age; Greek archaeology; Roman archaeology; Roman Britain; Viking raiders; the reign of Charlemagne; The Crusades; Romanesque art and architecture; Art in the Age of Chivalry; Hundred Years War; Renaissance Florence, c.1348-c.1527; Painting and sculpture in the Italian Renaissance; and Medieval religion, c.1215-1517. **There is also the possibility of taking a field trip module in both years;** so far we have been to Northumbria in northern England and Florence in Italy.

The Senior Sophister year

In their fourth year all students are required to write a dissertation on a topic of their choice. This gives you an opportunity both to investigate thoroughly an area that particularly interests you and to develop independent research skills. Of two further modules taken, students are free to specialise in an area that particularly interests them or to maintain a broad base of courses across the disciplines. Offerings currently include Hellenistic and Roman Egypt; Cyprus: Entertainment and spectacle in the ancient world; Hellenistic kings and cities; Empire and papacy in the eleventh century; Norman conquests 1048-1169; Medieval warfare; and the Art of Sanctity.

Assessment

A combination of end-of-year examination and continuous assessment (e.g. essays, seminar presentations, and team projects and commentaries on texts), and a dissertation is written in the final year.

Study abroad

Trinity College maintains a wide range of international links with universities across Europe – from France to Cyprus. Many foreign universities now teach courses in English too, and through the Erasmus exchange programme it may be possible to spend the Senior Freshman (second) year abroad.

Career opportunities

Graduates in the disciplines studied on the course have entered an exciting variety of fields after leaving university, including accountancy, advertising, archaeology, art restoration, business, civil service, diplomatic corps, heritage and museum work, human resources, journalism, management, publishing and teaching. Several others have progressed to postgraduate study at universities across Ireland, Europe and America.

Further information

www.histories-humanities.tcd.ie/undergraduate/ancient-medieval
Tel: +353 1 896 8589

History and political science

COURSE CODE:	TR012
PLACES 2013:	24
POINTS 2012:	515
DEGREE AWARDED:	B.A.

You can also study history through one of the following programmes, all leading to the degree of B.A.:

TR001: TSM (joint honor programme) History in combination with one other subject. For subjects that combine with History see page 40.

TR003: Single honor course in history, page 76.

You can also study political science through several other programmes, see page 104.

See also:

TR028: Ancient and medieval history and culture, page 78

Course overview

History and political science have a close affinity and the combination of the two in a joint honor programme provides a coherent framework for the development of interdisciplinary interests. In the first three years of the programme, you will take both subjects on an equal basis. In the fourth year, you may choose to concentrate exclusively on either subject or to continue with both. There are approximately 10-12 hours of classes per week in the Freshman (first two) years. See below for course details.

Assessment

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

Study abroad

Both the Political science and History departments have arrangements allowing students to study abroad in another university for a semester or a full academic year. Participating in these opportunities is dependent upon the exchange fulfilling the course requirements of both departments.

Career opportunities

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

Further information

www.tcd.ie/Political_Science/undergraduate

Tel: +353 1 896 1651

www.tcd.ie/history

Tel: +353 1 896 1020

History modules

Modules 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.

In each of the first two years students take 3 Political science modules and the equivalent number of term-long modules in History. In their first-year students may substitute modern language electives (two modern language courses) for history modules, while in their second year students may substitute electives for either history or political science modules (see www.tcd.ie/Broad_Curriculum).

Junior Freshmen (first-year students) select from modules such as:

- Europe, 1000-1250: War and society in the age of the Crusades
- Ireland, 1000-1250: Brian Boru to the English invasion
- Britain, c.1066-1296: Conquest and domination
- Europe, 1000-1250: Conflict of church and state
- Ireland, 1250-1500: Gaelic revival and the English Pale
- Britain, c.1296-1603: Nations and kingship
- Europe, c.1500-1700: Power and belief
- Britain since 1800
- American history: A survey
- South Asian history: An introduction

Senior Freshmen (second-year students) select from courses such as:

- Ireland and the union, 1801-1922
- Ireland and the wider world, 1534-1641
- Ireland and the wider world, 1641-1815
- Europe, c.1215-1517: Religion, death and culture
- Europe, 1700-1815: Culture and politics
- Europe, 1870-1930: Grandeur and decline
- Europe since 1914: Cataclysm and rebirth
- Twentieth-century Ireland
- The rise and fall of the British Empire
- Themes in modern American history
- Anglo-Saxons, Vikings and their impact on Britain and Ireland, c.400-1000

In the final two years you will take a short lecture module on historiography and choose special modules, which are studied in great detail and with particular attention to original sources. Students taking History alone in fourth year choose three special modules, and write a dissertation.

More than 35 modules are available in the Sophister years (three and four) including:

- The archaeology of medieval warfare
- The crusades
- Edward I, Edward II and the conquest of Britain, 1286-1328
- Europe reformed, 1540-1610
- The Elizabethans and their world, 1550-1610
- Confederate and Cromwellian Ireland
- Revolutionary Britain, 1678-1715
- Ireland in the age of O'Connell, 1775-1847
- France and the First World War, 1912-1920
- The impact of World War 1 on Ireland and Britain
- Revolutionary Britain, 1678-1715
- The French Revolution
- Sub-Saharan Africa since 1875
- Stalinism and Society
- Britain, the Near East and World War 2
- The Troubles, 1968-1998

Political science modules

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:

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

Senior Freshmen (second-year students) take:

- History of political thought
- International relations
- Comparative politics

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

- Irish politics
- Comparative political institutions
- Contemporary political theories
- Political parties
- Issues in contemporary politics
- Democracy and development
- European Union politics
- Contemporary international relations
- African politics
- Government and politics of the United States
- The politics of inequality
- Globalisation and the post-cold war order

History of art and architecture

COURSE CODE:	TR001 (TSM)
PLACES 2013:	40
POINTS 2012:	425-555*
DEGREE AWARDED:	B.A.

TSM points: See page 31

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

For subjects that combine with History of art and architecture see page 40.

See also:

TR003: History, page 76

TR012: History and political science, page 79

TR028: Ancient and medieval history and culture, page 78

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 visual 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 take 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 regions.

You will take a broad range of modules covering the history of painting, sculpture and architecture from antiquity to modern times. Topics available include Irish art, the art of the Italian Renaissance, art in the age of chivalry, the architectural splendours of the Georgian era and the artistic achievements of the twentieth century. There are also modules on non-Western art, such as the arts of Japan and India.

Trinity College offers excellent facilities for the study of history of art and architecture and its own distinguished buildings and collections are integral to the programme. The National Gallery of Ireland and National Museum are located nearby and provide the venues for group and teaching activities. Other institutions such as the Irish 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 modules providing an introduction to various aspects of Western art and architecture, and to the practice of Art history.

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

The course also 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 modernist structures. 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:

- The art and architecture of the medieval church, c.100-1220
- Art in the Age of Chivalry c. 1150-1350
- Painting and sculpture in 17th-century Europe
- Painting and sculpture in the Italian Renaissance
- City court & Campagna: the foundations of early modern architecture
- Architecture in the 19th and 20th centuries
- 18th century painting in Britain and Ireland
- Art in France 1850-1900
- Themes in Northern painting
- Modernism and post-modernism
- The arts of Japan
- Approaches to art history and criticism
- History and culture of South Asia
- Art in Ireland: making and meaning

These courses comprise a weekly lecture and a seminar in alternate weeks.

The special subject

If you elect to study History of art and architecture in the Senior Sophister (fourth) year, you will select a subject dealing with art-historical issues at a more specialised level. Where possible, you will be given the opportunity of studying primary sources and particular emphasis is placed on personal observation and interpretation of original works of art, whether painting, sculpture or architecture. Examples of special subject topics include Saints and sanctity in Medieval Europe, Irish architecture and ornament 1700-1830, Art and religion in the Hispanic World, Painting in Ireland and Britain c1800-1900: artists, institutions and audiences, and Irish modern and contemporary art.



Study abroad

Students have the chance to participate in a study week abroad. Cities visited in the past include Paris, Madrid, Vienna, Rome and Florence. In addition, you may apply to study at a university in France, Germany, Italy or Spain during the Senior Freshman (second) year as part of the Erasmus programme. As you will be required to attend lectures in the language of your host institution, you must possess the necessary linguistic fluency.

Assessment

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

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.

Did you know?

- The Douglas Hyde Gallery, one of Ireland's leading contemporary art galleries, is situated in Trinity College. The College itself has a major collection of paintings and sculpture, and a student committee assists the curator in managing this collection.

Further information

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

Irish (Early Irish and Modern Irish)

COURSE CODE:	TR022	TR001 (TSM-EI)	TR001 (TSM-MI)
PLACES 2013:	15	10	30
POINTS 2012:	375	460-555*	410-545
DEGREE AWARDED:	B.A.		

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate HC3 Irish

Advanced GCE (A-Level) Grade C Irish

Students may study:

EITHER Early and Modern Irish (TR022)

OR

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

OR

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

In TR001 (TSM) Early Irish or Modern Irish can be studied with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects.

For subjects that combine with Early Irish and with Modern Irish see page 40.

See also:

TR013: Computer science and language, page 124

TR027: Irish studies, page 84

Early Irish Component

Early Irish can be studied either in combination with one other subject as part of a two-subject moderatorship (TSM) programme or in the single honor Early and Modern Irish programme.

Is this the right course for you?

If you are interested in acquiring a reading knowledge of Medieval Irish, in which the great saga literature of our manuscripts was written, this is the course for you. You will enjoy **small class sizes** and a friendly atmosphere, work with scholars publishing in the field and may avail of the option to study Medieval and Modern Welsh in Wales in your third year.

Course content

The Early Irish course, which is taught through the medium of English, covers the history of the Irish language from its first appearance on the Ogam inscriptions at the dawn of the Christian era in the fifth century, to the highly polished language of the sagas and law texts preserved in the medieval manuscript collections held in the libraries of TCD, the Royal Irish Academy and the National Library, all within a five-minute walk of the Arts building. The Celtic and Indo-European origins of Irish will be investigated. You will come to know the great characters of Early Irish literature, including the tragic Deirdre, the doomed Conaire, the irresistible but irritable Cú Chulainn, the hopelessly infatuated Muirchertach and many more. The Pagan and/or Christian character of the literature will be investigated as will topics such as kingship, the heroic biography and the sovereignty goddess.

The Freshman years

In the first two years you will study the basics of Old Irish. At this stage most literature is read in translation but you will be introduced to the original texts gradually and you will see how the language emerged and developed through the early Christian period.

The Sophister years

In the Sophister (third and fourth) years the horizons are expanded; your study of the history of the language will take you back to its Celtic origins and forward to the dawn of Modern Irish. At this stage you will be reading prose and poetry as well as law and history in the original language, and a special course in palaeography will teach you how to read the manuscripts themselves. Junior Sophister (third year) students may opt to spend a term in Aberystwyth learning Medieval and Modern Welsh.

Assessment

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

Career opportunities

Some students of Early Irish pursue independent research in the subject with a view to teaching at third-level. Most follow a career in teaching or journalism, especially Irish-language related media. Library archiving, the public service, marketing, business, interpreting and translation all figure in the profiles of past students.

An Nua-Ghaeilge

Is féidir Nua-Ghaeilge a dhéanamh i dteannta le hábhar eile sa Mhodhnóireacht Dhá Ábhar (TR001) nó i dteannta le Luath-Ghaeilge sa Mhodhnóireacht aon-onóra (EMI TR022). Sa dá chóras seo déantar staidéar ar an dá ábhar ar feadh trí bliana agus roghnaítear ceann amháin den dá ábhar don cheathrú bliain. Bronntar céim onóra sa dá ábhar.

An é seo an cúrsa duitse?

Má bhaineann tú taitneamh as Gaeilge a labhairt, a scríobh is a léamh, agus más mian leat barr feabhais a chur ar do chumas sna réimsí sin, beidh an cúrsa seo oiriúnach duit. Is í an Ghaeilge teanga oibre Roinn na Gaeilge. Tá an-cháil ar an Roinn seo as a bheith cairdiúil. Bíonn líon na mac léinn beag go leor le nach mbíonn sé deacair ag na mic léinn aithne a chur ar a chéile. Tá Cumann Gaelach na mac léinn an-ghníomhach ar fad; tá scéim chónaithe lánGhaelach a bhfuil an-tóir uirthi sa Choláiste. San iomlán, is geall le mionGhaelacht i lár na príomhchathrach sinn.

Ábhar an chúrsa

Is trí mheán na Gaeilge a mhúinfeadh do chúrsa. Foghlaimeoidh tú faoi gach gné den Nua-Ghaeilge: ón bhFiannaíocht sa 13ú haois go Máirtín Ó Cadhain agus Nuala Ní Dhomhnaill sa lá atá inniu ann. Cuirfidh tú go mór le do chumas i labhairt agus scríobh na Gaeilge, agus déanfaidh tú staidéar foirmiúil ar cheartúsáid na teanga. Beidh deis agat freastal ar léachtaí faoi: scéalaíocht na seanré, stair shóisialta na teanga, an béaloideas, filíocht na scol, an Fhiannaíocht agus an nualitricíocht ar fad, .i. gearrscéalta, drámaíocht, úrscéalta, dírbheathaisnéisí agus filíocht. Caithfidh tú dhá mhí sa Ghaeltacht in Éirinn mar chuid de do chúrsa. Sainghné speisialta de chúrsa na Nua-Ghaeilge i gColáiste na Tríonóide ná gur anseo amháin a bheidh seans agat trí bliana a chaitheamh le Gaeilge na hAlban (a' Ghàidhlig). Beidh seans agat, más mian leat, tréimhse a chaitheamh i nGaeltacht na hAlban freisin.

An chéad bhliain agus an dara bliain

Sa chéad bhliain agus sa dara bliain, díróinn an cúrsa ar na hábhair seo a leanas: scileanna teanga, idir labhartha agus scríofa, an cheapadóireacht, an t-aistriúchán, stair shóisialta na Gaeilge, an Ghaeilge Chlasaiceach, an nualitricíocht, Gaeilge na hAlban.

An tríú bliain agus an ceathrú bliain

Sa tríú bliain agus sa cheathrú bliain, díróinn an cúrsa ar na hábhair seo a leanas: ardscoilteanna teanga, idir labhartha agus scríofa, an cheapadóireacht agus an t-aistriúchán ag leibhéal níos airde, agus Gaeilge na hAlban. Foghlaimeoidh tú conas lámhscríbhinní a léamh (cúrsa sa bpailéagrafaíocht) agus léirmheastóireacht chriticiúil a dhéanamh ar scéalaíocht na seanré. Ina theannta sin, déanfaidh tú rogha cúrsaí sa Nua-Ghaeilge Mhoch, sa litricíocht bhéil, i nualitricíocht na Gaeilge agus/nó nualitricíocht Ghaeilge na hAlban.

Measúnú

Bíonn ar gach mac léinn cleachtaí scríofa a dhéanamh gach seachtain mar chuid den mheasúnú leanúnach; bíonn aistí le scríobh go tráthrialta, agus béaltriall agus scrúduithe scríofa ag deireadh na bliana. Sa cheathrú bliain, bíonn taighde le déanamh agus tráchtas le scríobh.

Postanna

Déanann mic léinn áirithe taighde sa Nua-Ghaeilge chun post teagaisc ag an tríd leibhéal a bhaint amach. Téann tromlach na mac léinn le múinteoireacht agus le hiriseoireacht (sna meáin Ghaeilge ach go háirithe), cuid díobh le hateangaireacht agus le haistriú. Tá iarmhíic léinn le Nua-Ghaeilge tar éis dul le gairmeacha éagsúla cosúil leis an leabharlannaíocht, an tseirbhís phoiblí, margaíocht agus gnó freisin.

Did you know?

- Trinity College is home to the twelfth-century Book of Leinster, one of the most important manuscripts of Irish literature and learning to have survived from the medieval period.

Further information

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



Irish studies: An interdisciplinary course in Irish civilisation

COURSE CODE:	TR027
PLACES 2013:	20
POINTS 2012:	400*
DEGREE AWARDED:	B.A.

Special Entry Requirements:

See notes 1 and 2 in the Course overview, below.

See also:

TR003/001: History, page 76

TR022/001: Early and modern Irish, page 82

TR023/001: English literature and English studies, page 65

Course overview

This is an exciting interdisciplinary programme, devised by the departments of English, History (**both ranked in the top 40 in the world** in the 2013 QS World University Rankings) and Irish in collaboration with the departments of Geography, History of Art and Film/Drama. This programme offers a unique opportunity to study outside the traditional academic disciplines and to experience the integration, creativity and freedom associated with an interdisciplinary education while still taking courses in established subjects such as History and English. The emphasis throughout is on the interaction between Ireland and the wider world, including specific courses in British, European and American history and literature. Irish studies provides you with a very diverse range of options, thus guaranteeing a rich and rewarding educational experience, which will stand you in good stead in a competitive employment market that is demanding increasing flexibility.

There are two distinct strands in the Irish studies programme:

Strand A – All of the courses in this strand are taught through the medium of English. Note 1: There are no special entry requirements for Strand A.

OR

Strand B – This strand contains a number of Irish language modules. Note 2: Applicants who wish to choose this strand must attain at least a grade HC3 in Leaving Certificate Irish or a grade C in A-level Irish.

Students choose one strand (A or B) after admission to the Irish studies programme.

Irish studies is an accredited degree programme with the Teaching Council for the following subjects:

Strand A: English and History

Strand B: Irish and History

Is this the right course for you?

If you have an interest in the history, literature, and culture of Ireland in a broad, interdisciplinary, comparative, global context then this is the programme for you. Students are encouraged to avail of the full range of academic opportunities provided by Trinity College. For example, students on this programme have successfully competed for the TCD Foundation scholarship and chosen to **study abroad in their third year in Europe on the Erasmus programme or in the United States.**

Course content

There will be a mixture of compulsory courses in years 1-3 and optional courses in the final year, allowing you to specialise in areas where you have developed particular interests. Course details are available on our website at www.tcd.ie/courses/irishstudies. Assessment throughout the four years consists of both continuous assessment and examination. You will also write a dissertation in your final year. Courses include:

Strand A

All courses in this strand are taught through the medium of English.

Junior Freshman (Year 1)

Interdisciplinary: Imagining Ireland I

English: Theorising Ireland; Romanticism; Genre: The novel

History: Doing history; Ireland, c.1250-1500: Gaelic revival and the English Pale; Ireland and the wider world, 1534-1815

Irish Dept: Irish language and literature I (taught through the medium of English)

Senior Freshman (Year 2)

Interdisciplinary: Imagining Ireland II

English: Irish writing in English 1590-1800; Theories of literature; Introduction to postcolonial literature; Victorian literature

History: Ireland and the union, 1801-1922; Change & expectation: Socio-cultural history of 20th-century Ireland

Irish Dept: Irish language and literature II (taught through the medium of English)

Junior Sophister (Year 3)

Interdisciplinary: Imagining Ireland III; A Broad Curriculum module (see page 14); History of Irish cartography

English: Nineteenth-century Irish writing; Irish writing, 1890-1945; American literature

History: History of the USA; 20th century Europe

Senior Sophister (Year 4)

Interdisciplinary: Imagining Ireland IV; Dissertation. Students choose Sophister modules from an approved list of English and History courses, including specific modules in British, European and American history and literature.

OR

Strand B

This strand contains a number of Irish language modules.

Junior Freshman (Year 1)

Interdisciplinary: Imagining Ireland I

Irish: An Ghaeilge: Ceart na teanga I; Cleachtadh teanglainne; Nualitriocht

History: Doing history; Ireland, c.1250-1500: Gaelic revival and the English Pale; Ireland and the wider world, 1534-1815

English: Theorising Ireland

Senior Freshman (Year 2)

Interdisciplinary: Imagining Ireland II; A Broad Curriculum course (see page 14)

Irish: An Ghaeilge: Ceart na teanga II; Nuafhilíocht; Nualitriocht

History: Ireland and the Union, 1801-1922; Change & expectation: Socio-cultural history of 20th-century Ireland

English: Irish writing in English 1590-1800

Junior Sophister (Year 3)

Interdisciplinary: Imagining Ireland III

Irish: An Ghaeilge: Ceapadóireacht; An Fhilíocht Chomhaimseartha; Prós na Linne

History: History of the USA; 20th century Europe

English: Nineteenth-century Irish writing

Senior Sophister (Year 4)

Interdisciplinary: Imagining Ireland IV; Dissertation

Irish: Ceapadóireacht. Students choose Sophister modules from an approved list of Irish and History courses including specific modules in British, European and American history.

Career opportunities

Graduates in Irish studies can expect to arrive at a diverse range of career destinations, where the interdisciplinary nature of the programme will provide a distinct advantage; in particular, teaching (**Irish studies is an accredited degree programme with the Teaching Council for the following subjects – Strand A: English and History/Strand B: Irish and History**), as well as journalism, arts and heritage administration, the civil service, the diplomatic corps, publishing, media work, translation services, public relations etc. In terms of further education, graduates from this course have already been accepted onto postgraduate programmes in TCD, Oxford, Durham, Queen's University, Belfast and elsewhere.

Further information

www.histories-humanities.tcd.ie/irishstudies/index.php

E-mail: m.osiochru@tcd.ie

Tel: +353 1 896 2626

Student profile: see course description at:

www.tcd.ie/courses

Italian

COURSE CODE:	TR001 (TSM)
PLACES 2013:	30
POINTS 2012:	425-580
DEGREE AWARDED:	B.A.

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate	HC3	In Italian or in a language other than English
Advanced GCE (A-Level)	Grade C	In Italian or in a language other than English

Italian (TSM) must be combined with one other subject from the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with Italian, see page 40.

Alternatively, Italian may be selected as one of the two languages studied in the European studies programme (TR024).

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

Course overview

Having played a leading role in shaping European civilisation, Italy today is one of the world's most dynamic economies, famous for style, design and innovation. If you want to develop an in-depth knowledge of Italy's people and culture, the Trinity course gives you the opportunity to develop your interest in a systematic way. We also help you meet the challenge of mastering a new language; you can start Italian here as a complete beginner. There is close contact between students of Italian and staff; you will receive individual attention and will be encouraged to discuss your progress at all times.

Is this the right course for you?

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

Course content

The Freshman years

In the Junior Freshman (first) year, you will follow an intensive course in grammar, translation, conversation, audio/video and computer-based language learning.

We provide about eight classroom hours per week, mostly devoted to language learning including grammar, conversation and other activities, together with assignments to be carried out

independently. You will be introduced to modern Italian history, poetry, drama and fiction.

In the Senior Freshman (second) year you continue with language courses, Italian literature including Dante's *Inferno* and other key texts from the Renaissance, together with Italian cinema and cultural studies.

The Sophister years

The Junior and Senior Sophister (third and fourth) years focus on major authors of the medieval, Renaissance and later periods, including contemporary perspectives on Italy and its culture. Options are available in literature, language, film, history and society. There is a continuing emphasis on strengthening your language proficiency and developing higher-level skills in translation, text editing and writing.

In your final year the programme includes courses on Italian language varieties, key works by Dante, Boccaccio, Machiavelli and others, with a thematic approach to the modern period. Optional topics can be studied in depth, and you will research a substantial dissertation on an agreed theme.

Assessment

There is a combination of written, oral and aural examinations, in addition to essays and continuous assessment of coursework and assignments.

Study abroad

A **minimum two-month stay in Italy** will be required at some time over the duration of your course. This can be broken into convenient shorter visits. You can also apply to spend your second year at a European university through the Erasmus programme. We have links with the Universities of Bologna, Trieste and Pavia.

Career opportunities

Advanced language skills are sought after in today's job market – even here in Ireland, where many companies sell their products and services into Europe. Our graduates end up in all kinds of jobs: business, law, public administration, import-export, writing, journalism, translation, theatre, PR, diplomacy, corporate recruitment, finance, football management, teaching of all kinds, and even banking. Some have opted to live and work in Italy. Many do further study, selecting postgraduate courses in arts, social sciences, and European studies, while others have opted for professional training in law, marketing, journalism, teaching, acting, translation, interpreting and business.

Further information

www.tcd.ie/Italian
Tel: +353 1 896 2062
E-mail: italian@tcd.ie

Student profiles: see course description at:
www.tcd.ie/courses

Jewish and Islamic civilisations

COURSE CODES: TR001 (TSM)

PLACES 2013: 10

POINTS 2012: 405-580

DEGREE AWARDED: B.A.

TSM points: See page 31

Jewish and Islamic civilisations cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honors programme. An honors degree is awarded in both subjects.

For subjects that combine with Jewish and Islamic civilisations see page 40.

What is Jewish and Islamic civilisations?

Judaism and Islam have been deeply influential in the development of European, Middle Eastern, North African, and North American societies. Studying their origins and cultures provides an insight into the challenges of diversity and multiculturalism in an increasingly globalised world. Whether you find yourself drawn to the ancient or modern worlds or favour the study of literature, religion, history, languages or politics, you will find in this degree a way to deepen your appreciation of complex and diverse societies and cultures. From Babylon to Berlin, from Cracow to Cordoba, from New York to Jerusalem, explore these extraordinary societies with us.

Encountering these civilisations is not confined to the classroom and we organise various activities that include **study tours** (e.g., **Poland, Berlin, Andalusia**). In addition students may apply for museum **internships**. Each year **international figures** working in areas such as Human Rights, Holocaust studies, and Middle Eastern archaeology and history come to the Department to contribute to the courses.

Is this the right course for you?

If you want to understand how the civilisations of the Ancient Near East shaped the Bible or how ancient societies influence modern cultures and values, this course would be of great interest to you. If you find yourself asking how societies develop their values and perspectives, you will be able to explore how they do so over the course of some of the most exciting periods of human history.

A range of student activities will be available to you and many of these help you to develop the kind of skills employers look for. Graduates go on to work in many careers: some have entered professional schools in such fields as law, journalism, or are in communal or social work. Others have combined their interest in Jewish, Islamic and Near Eastern Studies with careers in business, NGOs, international human rights, and the arts. All have found the degree to be an intellectually and personally rewarding experience and an important aspect of their career pathway.

Course content

The Junior Freshman year

In the first year we offer introductory courses in the origins of Ancient Near Eastern, medieval and modern Jewish and Islamic civilisations. The histories, cultures and religions of these civilisations are explored through literature (both ancient and contemporary), inscriptions, and archaeological evidence.

- **The World of the Ancient Near East and the Bible** explores the environment of the world of ancient Israel and Judah using both literary and archaeological evidence. Particular attention is paid to the worldviews of the ancient Israelites and their neighbours in the land of Palestine and in Babylonia, Persia, Egypt and the Hellenistic and Roman worlds. The origin of different Jewish groups including the early Christian movement is explored.
- **Introduction to Islamic civilisation** introduces history, texts and cultural contexts for the development of Islamic civilisation from its origins in the Arabian peninsula to the present. Sources examined include the Qur'an, Islamic art and architecture, and literature of the Middle East.
- **Introduction to Jewish Civilisation from Antiquity to the Modern Period** outlines the major cultural movements in Jewish history from their ancient origins in the Near East through the medieval Muslim and Christian societies up to the modern experience.

The second and third years

From the second year on, you may choose from a range of courses depending on the individual interests you have developed in your first year. You will be able to study diverse cultures in the ancient, medieval and modern worlds through political, religious and literary texts, material culture, blogs and film. Topics include Ancient Empires of the Mediterranean and the Near East; The literature of the Bible; History and the Bible; Arabia before the rise of Islam; Relations between Jews, Arabs and Christians in Antiquity; Jews and Muslims in the Medieval world and in Modern Europe; Great Jewish books; Contemporary political and religious movements in Islam, and Human rights.

In addition you have the option to take Arabic, Greek or Hebrew. In second year you may take a course in Trinity College's Broad Curriculum programme (see page 14).

The Senior Sophister year

In your final year you will be able to choose special subjects from a range on offer. Courses offered in recent years include: The Jews of Egypt; Islam and Human Rights; Islam and gender; Holocaust representation; The Bible in popular culture, Arabic or Hebrew. In addition to these courses, you will be able to write a thesis on a topic of interest to you.

Assessment

A combination of end of year examination and continuous assessment, e.g. essays, book reviews, seminar presentations, and digital projects.

Did you know?

- Trinity College is the only university in Ireland that offers a course in Jewish and Islamic civilisations.

Study abroad

You may have the opportunity to avail of a semester abroad programme at Charles University in Prague. You may also apply to spend a year in the United States or Canada.

Career opportunities

The course in Jewish and Islamic civilisations is an arts degree and graduates have skills that are highly valued by potential employers enabling them to pursue the same kinds of careers as other arts graduates. Trinity College's Careers Advisory Service recently surveyed employers about what they looked for in arts graduates and top of the list came: enthusiasm for the position, personal qualities and transferable skills such as good oral communication, written communication, team work and problem solving. Students of Jewish and Islamic civilisations have ample opportunity to develop all of these skills within a department that is relatively small and very student centered. A knowledge of the cultures, values and histories of different societies in the global community is an advantage for many types of careers.

Our graduates have followed careers in areas such as law, NGOs, journalism, publishing, media, and teaching. They also have been very successful in gaining places in MA and PhD programmes both in Ireland and abroad. Visit our website to hear some views of current students and graduates:

www.tcd.ie/nmes

Further information

See: www.tcd.ie/nmes

Law

COURSE CODE:	TR004
PLACES 2013:	90
POINTS 2012:	525*
DEGREE AWARDED:	LL.B.

Note: Law (TR004) is one of three courses that are part of the feasibility study in admissions, and 10 places will be filled under this new route. For further details see page 26.

See also:

TR017: Law and business, page 93

TR018/019: Law and French/German, page 91

TR020: Law and political science, page 95

Why study Law at Trinity College?

Trinity College Dublin's School of Law, is Ireland's oldest and most internationally renowned law school. The school is one of the world's top 100 universities for law (QS World University Rankings 2013).

By national and international comparisons we are small in size but attract students of the highest calibre from Ireland and abroad. Our small size and **dedication to small-group teaching** fosters a friendly and vibrant relationship between staff and students, one inspired by mutual respect and co-operation.

Trinity College Dublin's four-year law degrees offer an unrivalled number of optional modules in the final two years of study. Final year students have the **option of taking a clinical legal education module, which involves placement of students in a variety of organisations in the private, public and voluntary sectors.** Under the supervision of experienced professionals, students will gain first-hand experience of legal practice, observing, assisting and, where appropriate, participating in the organisations' work. This gives students an opportunity to apply and develop their legal skills and knowledge in a practical way and to learn from this experience. Our modules in the final two years afford students the **opportunity to specialise and gain a competitive advantage over graduates from many other universities.** Students reading any of our undergraduate law degree programmes, will also have available to them all of the modules required for entry to the Irish and UK professional bodies.

The School is home to one of Ireland's leading legal periodicals, the 'Dublin University Law Journal', and the 'Trinity College Law Review'. The latter is published by the student members of the College's Law Society and now enjoys international dissemination on HeinOnline.

The School is recognised for providing a liberal environment where independent thinking, the promotion of the ideals of social inclusion and equality is strongly encouraged. We educate people to be the leaders of the legal profession, public service and society.

Our five honors degrees in law provide students with a challenging and rewarding legal education but also instill more general skills such as critical thinking and problem solving. Trinity College Dublin's LL.B. degrees prepare students not only for life as 'lawyers', but also enable them to enter many career fields such as business, journalism, financial services, politics, foreign affairs and diplomacy and public services. The skills learned through studying law in Trinity College Dublin are useful in all walks of life.

Visit the Law School

- If you are considering studying for a Law degree at Trinity College but want to be sure, **you are most welcome to attend lectures**. If you would like to avail of this opportunity, to come in and **discuss your options with a member of staff**, or to visit the Law School we would be happy to meet you. Please contact us by e-mail (see below) to arrange a visit.

Is this course right for you?

Law is an exciting, dynamic discipline, which is constantly evolving and reacting to social change. It governs every aspect of our lives, from food labelling and football transfers to elections and crime. The study of law appeals to people interested in society, governance and current affairs. If you like to be challenged and intellectually stimulated then one of our Law degrees may be for you. A general interest in history and political developments will be an advantage, as many legal modules cannot be fully appreciated without reference to their historical and political context. Legal training requires precise and careful use of language therefore good writing skills and a facility for articulate expression are important.

Course overview

Law at Trinity College is a four-year degree programme. The first two (Freshman) years are given over to the study of core legal modules (many of which are required by the legal professional bodies). There is an appropriate balance in the Freshman years between the academic and practical aspects of law, achieved through the introduction of legal skills and mooted (mock trials) programmes, and assisted in part by members of our academic body with experience of private practice. In your Sophister (third and fourth) years you can focus on particular areas of law chosen from a range of approximately 30 modules each year.

Studying law at university involves a large amount of independent learning, including reading and research. This can be done in the library or at home using library databases available to current law students. Essays and other written work are assigned on a regular basis, and contribution in class is expected.

Most of the teaching takes place at lecture level and is supplemented with seminars (**small group teaching** in classes of between 12-15 students). The academic year is divided into two terms (semesters). In the Freshman (first two) years, students take three modules per semester and a series of legal skills or mooted seminars and workshops. Each module is taught by three hours of lectures per week and four seminars per semester. In the Sophister (final two) years students take generally between six and eight modules (modules are weighted differently in the final two years, see below) and modules may also be supplemented by seminars and workshops.

Modules

Junior Freshman (first year)

- Torts
- Constitutional law I
- The Irish legal system (including Legal skills)
- Contract law
- Criminal law
- Legislation and regulation

Senior Freshman (second year)

- Administrative law
- Constitutional law II
- Equity
- European Union law
- Land law
- Private law remedies (including Mooting)

The Sophister years (third and fourth year)

Throughout the four years of study, students must take modules worth 60 ECTS (European Credit Transfers) each year. The majority of modules bear 10 ECTS; however, in the Sophister years there are also 5 credit modules available. The modules which may be available to study are as follows:

Advanced European Union law; Advanced evidence; Advocacy; Child law; Clinical legal education; Collective labour law; Commercial law; Company law; Comparative law; Contemporary issues in Constitutional law; Corporate governance; Corporate insolvency law; Criminology; Critical perspectives on law; Economic and legal aspects of competition policy; Employment law; English land law; Environmental law; European human rights; EU food law; Evidence; Family law; Intellectual property law; International family law; International human rights law; International trade law; Jurisprudence; Legal philosophy; Media law; Medical law and ethics; Penology; Public interest law; Public international law; Refugee and immigration law; Restitution; Tax law; Transnational contract law; Sport and the law.

In the Senior Sophister year, students may also opt to write a research dissertation on a topic of their choice in place of a taught module.

If you would like to find out more detailed information on the modules offered above, please visit www.tcd.ie/Law/undergraduate/law/freshman.php and www.tcd.ie/Law/undergraduate/law/sophister.php

Broad Curriculum programme

The School of Law is committed to making available to students the option of taking a module from outside its discipline, under the Broad Curriculum programme. Students may choose to study modules from a variety of disciplines, not just from the Faculty of Arts, Humanities and Social Sciences. See page 14.

Study abroad

In the Junior Sophister (third) year, students have the opportunity to apply to study abroad in a prestigious European university with the EU funded Erasmus programme. In addition to exchange programmes in Europe, the School of Law also has bilateral links with leading universities in North America and Australia. Our exchange programmes are highly successful, and are a very popular option for a large number of law students each year. Participating students find that they are hugely enjoyable, academically and culturally rewarding, and a valuable asset to prospective employers.

Career opportunities

A law degree provides the ideal foundation for the aspiring solicitor or barrister. However, law offers wider opportunities than professional practice alone, with many graduates finding employment in public administration, business, journalism, accountancy, banking, insurance, politics, foreign affairs, diplomacy and international financial services.

Law degrees and professional qualifications

No law degree entitles a person to practise law as a solicitor or barrister. If you wish to go on to obtain a professional qualification, the governing bodies for the profession require that you study certain specific modules in your primary law degree. These modules are taught as compulsory modules during the Freshman years and/or as optional Sophister modules. The School of Law's five undergraduate law degree programmes enables students the opportunity to study all modules required by the Irish and English professional bodies.

Students contemplating a career as a barrister will need to continue their studies with the Honorable Society of the King's Inns. To qualify as a barrister, law graduates must complete the one-year degree course with the King's Inns before 'devilling' with a qualified barrister for a year. Further information on becoming a barrister is available from www.kingsinns.ie

Prospective solicitors must undertake the professional training programme for solicitors delivered by the Law Society of Ireland (www.lawsociety.ie).

Separate requirements apply in Northern Ireland. Prospective barristers should consult the Under Treasurer, The Inns Court of Northern Ireland (www.barlibrary.com), while prospective solicitors should consult the Secretary, the Incorporated Law Society of Northern Ireland (www.lawsoc-ni.org).

In view of rapid changes relating to the rules of entry into professional study, all 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/undergraduate

Tel: +353 1 896 1125 / 1278

E-mail: law.school@tcd.ie

Student profiles: see course description at: www.tcd.ie/courses

Did you know?

- Trinity College Dublin is ranked in the top 100 universities in the world for Law (by the QS World University Rankings 2013).

Student Profile

Ben Mitchell

"Trying to sum up in only a few lines what I enjoy most about Trinity is particularly difficult. The four years that I have spent here as a student have been fantastic for a whole host of reasons. The ultimate aim of any college education is obviously to get a degree at the end and I've found that Trinity is a great place to study, not least because it's a university that makes you want to learn. The professors and lecturers are all experts in their fields, which mean they have a passion for their subjects that is infectious.

The College also places a lot of emphasis on student life and while I've been here I've been able to write for newspapers, debate, edit the law review, sit on student committees and compete for the university's sailing team as well as take part in a huge range of other activities. I came into first year with the intention of taking part in everything, but after only a few minutes I realised that was simply impossible as there is literally something for everyone here as there are well over one hundred different societies on offer.

Trinity has global links with other universities, which gave me the opportunity to spend my third year on exchange to a US Law School. This was a brilliant experience and was one of the most enjoyable parts of my undergraduate education but, for however much I enjoyed it, what I got most out of it was an understanding of what sets Trinity apart as a place to be a student. There is a culture here that I haven't seen replicated elsewhere, which makes it such an exciting place to be a student. I've spent the last year living in the College, right in the heart of Dublin city, in some of the most impressive buildings in the country, so I have seen firsthand the entertainment, friendliness, support and inspiration that Trinity has to offer. From what I've experienced here, I can't recommend it highly enough as a place to study.



Graduate Profile

Garrett Simons

Garrett Simons, S.C. graduated from the School of Law with a first class honours degree in 1992. Garrett is a Senior Counsel specialising in planning and environmental law, and the author of "Planning and Development Law" (Thomson Round Hall, Dublin).

"My reasons for choosing Trinity College were, first, the excellent reputation of the School, and, secondly, the fact that it offered a four-year honours degree course. A four-year course not only allows for a greater choice of subjects, but also affords an opportunity to study those subjects in depth. Your degree is awarded on the basis of your performance in third and fourth year, which is a much fairer basis of assessment than in most colleges. The Law School is relatively small, and thus has a very friendly atmosphere. My lecturers were excellent, and in many cases were the leaders in their field. I particularly enjoyed the Environmental Law course taught by Professor Yvonne Scannell, and subsequently decided to specialise in planning and environmental law. I have no doubt but that the questioning approach which Yvonne and other lecturers encouraged us to take to legal issues has been of great benefit to me in my practice at the bar."

Law and French/German

COURSE CODES:	TR018 (French)	TR019 (German)
PLACES 2013:	15	15
POINTS 2012:	565	525
DEGREE AWARDED:	LL.B. (Ling. Franc)	LL.B. (Ling. Germ)

Special Entry Requirements:

Leaving Certificate	HC1	French (TR018)
	HC1	German (TR019)
Advanced GCE (A-Level)	Grade C	French (TR018)
	Grade C	German (TR019)

See also:

TR004: Law, page 88

TR017: Law and business, page 93

TR020: Law and political science, page 95

Overview

With continuing European integration and an increasing globalisation of legal matters, there is a need for lawyers with a trans-national education. The Law and French, and Law and German degree courses satisfy these needs as students graduate with a grounding in Irish law, are fluent in a second European language, with a thorough knowledge of the legal system of France or Germany, and have a real insight and knowledge of the general culture, political, economic and sociological make-up of France or Germany. The Law and a language programmes are taught in collaboration with the School of Languages, Literatures and Cultural Studies.

Is this the right course for you?

In addition to a desire to study law, you will need a specific and strong interest in the general culture, legal, political, economic and sociological make-up of either France or Germany. You should also be willing and have the ability to become fluent in the relevant language.

Visit the Law School

- If you are considering studying for a Law degree at Trinity College but want to be sure, **you are most welcome to attend lectures**. If you would like to avail of this opportunity, to come in and **discuss your options with a member of staff**, or to visit the Law School we would be happy to meet you. Please contact us by e-mail (see below) to arrange a visit.

Did you know?

- Trinity College Dublin is ranked in the top 100 universities in the world for Law (by the QS World University Rankings 2013).

Course content

In the Freshman (first two) years you will study a variety of legal modules, see below. In each semester, you will have two Irish law modules, with three hours of lectures in each per week. These lectures are complemented by compulsory law seminars (4 per module) and modules in legal skills in the Junior Freshman (first) year and mooted (mock trials) in the Senior Freshman (second) year. Law and a language students also study the constitutional and civil law of their chosen jurisdiction. Students also take integrated modules on language and civilisation, covering aspects of sociology, legal systems and politics.

Law and French students will study French public and private law through French from the start. French law is a fascinating subject for common law students: the French legal system is a key exemplar in both constitutional and private law. Understanding French law is especially useful for fields such as European Union law and the international practice of law. Students' analysis of Irish law also benefits from comparative insights. The French component in this degree programme is designed to equip students to study and ultimately practise law through French. New entrants are not expected already to be fluent; rather they will develop their language skills through the degree. Language learning during the years in Trinity occurs largely through the substantive study of French law and civilisation modules taught entirely through French. This enables students to develop their skills of aural and reading comprehension and fluid and accurate expression in written and oral forms, as well as acquiring the necessary terminology to research and discuss legal topics.

Law and German students should be interested in developing a very high fluency in German. New entrants are not expected already to be fluent; rather they are supported in improving their language skills through the degree.

Germany is one of the world's principal civil law legal systems, unlike our own common law system. Understanding German law is therefore very useful, especially for fields such as European Union law, International law or International business law. Students also benefit from comparative insights in their study of Irish law.

Junior Freshman modules

- The Irish legal system (including Legal skills)
- Contract law
- Constitutional law 1
- Criminal law
- French or German language
- French civilisation and legal methods or German area studies
- French constitutional law and legal systems or German legal system

Senior Freshman modules

- Law of tort
- Land law
- Private law remedies (including Mooting programme)
- Equity
- French or German language
- French civilisation or German cultural history
- French legal methods and/or French or German civil law

The Sophister years

The Junior Sophister (third) year is spent studying legal or related subjects in a French or German university. The results obtained studying abroad constitute a substantial part of your final degree grades.

In the Senior Sophister (fourth) year, you select 40 ECTS (credits) worth of modules from approximately thirty options. See page 89 for details of possible modules. Students who wish to continue their studies with the professional bodies may also take Freshman modules in place of a Sophister module if required by the particular professional body. In addition, you will engage in language and oral work and project/report writing. Students may choose from a number of options to take the place of a law module, including a Broad Curriculum module (see page 14), a research dissertation or a module offered by the relevant language department.

In addition to the above optional modules, Law and a language students also take further modules in French or German law or language.

Assessment

A combination of assignments and aural, oral and written examinations is used. There is a strong element of continuous assessment in language and French or German law subjects.

Career opportunities

The increasing Europeanisation of legal practice means that graduates of the law and a language degree programme have much to contribute to the legal and other professions in Ireland, as well as enjoying career opportunities in Europe. In addition to careers in the legal profession, Law and French, and Law and German graduates also find employment in business, journalism, accountancy, banking, insurance, politics, foreign affairs and diplomacy and public services.

Also, see "Law degrees and professional qualifications" on page 90.

Further information

www.tcd.ie/Law
Tel: +353 1 896 1125 / 1278
E-mail: law.school@tcd.ie

Student profiles: see course description at:
www.tcd.ie/courses

Law and business

COURSE CODES:	TR017
PLACES 2013:	25
POINTS 2012:	565
DEGREE AWARDED:	LL.B. (Law and Business)

Special Entry Requirements:

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

See also:

TR004: Law, page 88
TR018/019: Law and French/German, page 91
TR020: Law and political science, page 95
TR034: Management science and information systems studies (MSISS), page 126

Course overview

This joint degree aims to give students a firm grounding in the disciplines of law and business and to develop a critical understanding of both the legal framework of business activity and the economic and commercial context in which law operates. Students will have the opportunity to focus upon the many areas of overlapping interest between the two disciplines; for example, the structure of companies and other forms of business organisation, competition law and regulation of markets, consumer law, labour law, finance and financial markets, taxation, the protection of intellectual property and international perspectives on law and business.

Is this the right course for you?

Historically, the disciplines of business and law have been closely associated in both the public and private sector. In our global economy, businesses now deal with more complex issues concerning government regulations and international trade policies. Conversely, the law has had to grapple with constantly evolving commercial organisations and business practices. With the growth in the size of legal practices and the expansion of the work of the legal profession into areas of mergers, acquisitions and taxation, the work of legal graduates and business graduates have blended in many aspects. This course is aimed at individuals seeking a career defined by the application of legal principles and management practices. The programme will provide students with a firm grounding in law along with strong management skills, enabling students to choose from a wide range of career opportunities or further study.

Course content

In the Junior Freshman (first) year students take six modules, each equal to 10 ECTS credits. Students take three mandatory law modules: The Irish legal system, Law of contract, and Law of tort. Students take two mandatory business modules: Introduction to organisation and management, and Introduction to economic policy. In addition, students can choose between Mathematics and statistics, or a language module (French, German, Russian, or Polish).

In the Senior Freshman (second) year students take six modules. The three mandatory law modules are: Criminal law, Constitutional law I and Land law. The six mandatory business modules are the core business discipline modules: Organisational behaviour, Marketing management, Introduction to accounting, Financial analysis, Introduction to finance, Introduction to operations management.

In the Junior Sophister (third) year students take a combination of modules, of which 1/3 must be from the Business School and 1/3 from the Law School. One of the law modules must be European Union law. The remaining business modules may be drawn from a list of optional modules as follows:

Human resource management; Financial and management accounting; Marketing management; Applied finance; Organisational theory; Business and society, Innovation, entrepreneurship and new venture development.

The remaining Law modules may be drawn from a list of optional modules as follows:

Administrative law, Advanced evidence, Child law, Collective labour law, Commercial law, Company law, Comparative law, Conflict of laws (private international law), Constitutional law II, Contemporary issues in constitutional law, Corporate governance, Corporate insolvency, Criminology, English land law, Environmental law, Equity, Evidence, Family law, Economic and legal aspects of competition policy, Employment law, European human rights law, Food law, Intellectual property law, International human rights law, International trade law, Jurisprudence, Legislation and regulation, Planning law, Private law remedies, Public interest law, Public international law, Refugee law, Research dissertation, Sports law, Tax law, Transnational contract law, Media law, Medicine and legal ethics, Broad Curriculum (see page 14).

In the Senior Sophister (fourth) year students may choose from a range of module options and may choose to either combine business and law modules in this year, or alternatively, to specialise entirely in either law or business modules. Module options include:

Business:

Strategic management: Theory and practice; International business and the global economy; Exploring organisational experiences; Financial reporting and analysis; Financial markets and the corporate sector; Advances in marketing theory and practice; Managing new product development; Entrepreneurship and social innovation.

Law:

Administrative law, Advanced European Union law, Advanced evidence, Child law, Clinical legal education, Collective labour law, Commercial law, Company law, Comparative law, Conflict of laws (private international law), Constitutional law II, Contemporary issues in constitutional law, Corporate governance, Corporate insolvency, Criminology, Critical perspectives on law, Equity, Evidence, Family law, Economic and legal aspects of competition policy, Employment law, English land law, European human rights law, Food law, Intellectual property law, International human rights law, International practice in law, International trade law, Jurisprudence, Legal philosophy, Media law, Medicine and legal ethics, Legislation and regulation, Planning law, Private law remedies, Public interest law, Public International law, Refugee law, Research dissertation, Sports law, Tax law, Transnational contract law, Broad Curriculum (see page 14).

Assessment

Modules are examined by a combination of continuous assessment and formal examination.

Languages and Study abroad

First and second-year students have the option to study French, German, Russian or Polish. Students who have the prerequisite language proficiency will have the opportunity to study abroad in their third year as part of the Erasmus exchange programme. This will mean spending all or part of the Junior Sophister (third) year abroad at a university in Belgium, France, Germany, Italy, or Russia. Law and business students also have the opportunity of applying to take part in English-speaking international exchange programmes in Europe, North America, Australia and Singapore.

Career opportunities

The programme will provide students with strong management skills and an in-depth specialisation in law. Graduates will be well prepared for demanding and rewarding careers in both the legal and business professions, particularly in areas where the two disciplines coincide. We expect graduates to accept positions in law, business, taxation, finance and accounting, general management, employment relations and the civil service. In particular, students will have the option of studying all the law subjects required for a qualifying law degree, which will enable them to apply for entrance to the professional legal institutions to qualify as barristers and solicitors. The post-degree training for barristers and solicitors varies from time to time, and current details can be found on the following websites: <http://lawlibrary.ie> (barristers) and www.lawsociety.ie (solicitors).

Also, see “Law degrees and professional qualifications” on page 90.



Why choose the Trinity College School of Business?

See page 43.

Why study at the Trinity College School of Law

See page 88.

Visit the Law School

See page 89.

Further information

www.tcd.ie/business and www.tcd.ie/law
Tel: +353 1 896 1840 or +353 1 896 1125 / 1278
E-mail: law.school@tcd.ie

Law and political science

COURSE CODES:	TR020
PLACES 2013:	20
POINTS 2012:	575
DEGREE AWARDED:	LL.B. (Pol. Sc.)

See also:

TR004: Law, page 88
 TR018/019: Law and French/German, page 91
 TR017: Law and business, page 93
 TR012: History and political science, page 79
 TR015: Philosophy, political science, economics and sociology, page 102
 TR081: BESS, page 41

Course overview

Law and politics are deeply connected and this course provides the opportunity to learn about both and better understand their relation to each other. As a student on this programme, you will take both subjects for the first three years. In your fourth year you will have the option to concentrate exclusively on either subject, or continue with both. During the four years of studies, students will have the opportunity to study all of the core subjects required by the legal professional bodies.

Is this the right course for you?

Yes, if you are interested in pursuing a legal career and want your study of law to be informed by a wider political understanding, or if your intellectual or career interests in politics and public service would be strengthened by a knowledge of the law.

Visit the Law School

See page 89.

Did you know?

- Trinity College Dublin is ranked in the top 100 universities in the world for Law (by the QS World University Rankings 2013).

Course content

All students take modules worth 60 ECTS (European Credit Transfer System) per year. In the first two years students take six 10 credit modules (three from each discipline).

In the Junior Sophister (third) year, students take modules totalling 30 credits from each discipline. Students may choose to specialise in either Law or Political science in their Senior Sophister (fourth) year or continue to take an equal combination of modules from both subjects.

Law modules are generally taught for three hours per week for one semester only and students attend four compulsory law seminars per module. Political science modules are also taught at lecture level with two hours of lectures and one tutorial per week per module.

In the Junior Sophister (third) year, one law module, EU law, is mandatory. If a student chooses to specialise in Political science in the final year of his/her degree then he/she must take Research methods for political scientists.

Junior Freshman (first) Year

Law: The Irish legal system and Legal skills, Contract, and Torts law.

Political science: Introduction to political science, Introduction to economic policy, and Introduction to sociology.

Senior Freshman (second) year

Law: Criminal law, Constitutional law I and Land law.

Political Science: History of political thought, Comparative politics, and International relations. In place of a Political science module, students may take two Broad Curriculum modules (see page 14).

The Sophister years

Junior Sophister (third year) students take 30 ECTS from both Law and Political science from the following modules:

Law: EU law (compulsory) and 20 ECTS from the following modules: Administrative law; Advanced evidence; Child law; Commercial law; Company law; Comparative law; Conflict of laws (private international law), Constitutional law II, Contemporary issues in constitutional law, Contemporary issues in law and political science, Corporate governance, Corporate insolvency, Criminology, Critical perspectives on law, Environmental law, Equity, Evidence, Family law, Economic and legal aspects of competition policy, Employment law, English land law, European human rights law, Food law, Intellectual property law, International human rights law, International practice in law, international trade law, Jurisprudence, Legal philosophy, Media law, Medicine and legal ethics, Legislation and regulation, Planning law, Private law remedies, Public interest law, Public international law, Refugee law, Sports law, Tax law, Transnational contract law, Broad Curriculum.

Political science: Research methods for political scientists (compulsory if students wish to specialise in Political science in the final year), and two modules from: Irish politics; Government and politics of the USA; European Union politics; and Democracy and development.

Senior Sophister (fourth year) students may choose to take either 60 ECTS from Law or Political science or continue to study an equal combination of Law and Political science modules from the following list:

Law: Administrative law; Advanced EU law; Advanced evidence; Child law; Clinical legal education, Commercial law; Company law; Comparative law; Conflict of laws (private international law), Constitutional law II, Contemporary issues in constitutional law, Contemporary issues in law and political science, Corporate governance, Corporate insolvency, Criminology, Critical perspectives on law, Equity, Evidence, Family law, Economic and legal aspects of competition policy, Employment law, English land law, European human rights law, Food law, Intellectual property law, International human rights law, International practice in law, international trade law, Jurisprudence, Legal philosophy, Media law, Medicine and legal ethics, Legislation and regulation, Planning law, Private law remedies, Public interest law, Public international law, Refugee law, Research dissertation, Sports law, Tax law, Transnational contract law, Broad Curriculum.

Political science: Contemporary political theories, Comparative political institutions, Political parties, Issues in contemporary politics, Contemporary international relations, African politics, The politics of inequality, Topics in political science.

Full details of all law modules (Freshman and Sophister) are available on www.tcd.ie/law/undergraduate.

In both subjects small-group teaching is an important aspect of the Sophister years and, should you decide to specialise in either Law or Political science in the final year, you will have the opportunity to research and write up a dissertation on a topic of your choice.



Assessment

Courses are examined by a combination of continuous assessment and formal examination.

Study abroad

A limited number of places are available on EU-funded exchange programmes at universities in Austria, France, Germany, Italy, the Netherlands, Poland and Spain to students in the Junior Sophister (third) year. Students are advised to take optional language courses (see page 14) within the first two years if they wish to avail of this opportunity; alternatively they must satisfy that they have proficiency in the language of the host university that they wish to study in. There are also exchange programmes with a number of universities in North America. Participating in these opportunities is dependent upon the exchange fulfilling the course requirements of both departments.

Career opportunities

Whether students' career goals lie in public leadership, the legal profession, the media, the civil service, academia, public relations, anything in business that requires knowing how government works, positions in international organisations such as the EU or a not-for-profit organisation, law enforcement, private practice, or elsewhere, the degree in Law and political science will be ideally suited as a platform for attaining those goals.

Further information

www.tcd.ie/law/undergraduate

Tel: +353 1 896 1125 / 1278

E-mail: law.school@tcd.ie

www.tcd.ie/Political_Science/undergraduate

Tel: +353 1 896 1651

Law degrees and professional qualifications

See page 90.

Music

COURSE CODES:	TR002	TR001 (TSM)
PLACES 2013:	15	20
POINTS 2012:	420	535-585
DEGREE AWARDED:	B.A.	

TSM points: See page 31

This is a restricted entry course. Applications must be submitted by 1 February 2014

Applications must be submitted by 1 February of the proposed year of entry. Applicants will be required to attend an entrance examination, provisionally scheduled for 29 March 2014.

Specimen examination papers are available for download from the Music Department website:

www.tcd.ie/Music/undergraduate/music/index.php

Special Entry Requirements:

Formal musical training is not a prerequisite for entry, but candidates should have a good ear and the ability to read and notate music to a rudimentary level. The most important musical qualification is a good ear.

On the basis of the entrance examination results, applicants may be called to attend an interview at the end of April/beginning of May, before final selections are made. You are not required to perform at interview.

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

TR001 – Music (TSM) is a joint honors programme. Music can be combined with one other subject. An honors degree is awarded in both subjects. For subjects that combine with Music see page 40.

Single honor and TSM students follow the same courses. While TSM students cover all the principal areas of music studied by single honor students, the workload is less than that of the single honor programme. TSM students have the same range of options as single honor students.

See also:

TR009 – Music education page 99

Course overview

The single honor and two-subject courses provide a thorough grounding in the basic skills of musicianship and academic study (see below for details). From the second year onwards, and especially in the third and fourth years, both courses offer a wide range of options. Students specialise in one of the following areas: composition, music technology, and musicology (the historical and analytical study of music); and in their final year they undertake a major project in that area. However, the course is designed so that students may also take subjects outside their specialisation.

Although instrumental or vocal studies are not part of the formal curriculum, a wide range of musical activities takes place on the campus. Practical courses in aural training and/or keyboard skills are available in each year; and the Music Department supports several performance groups that work under the supervision of experts in their fields (these are in addition to the many performance opportunities offered by student societies). The majority of subjects are based on the traditions and practice of classical (or art) music, from the medieval period to the present day. However, the department regularly presents lectures in other musical traditions, including jazz, contemporary and popular music. Many students currently in the department come primarily from one of those non-classical traditions.

One of the strengths of the Music courses in Trinity College is the commitment to small-group teaching. While some subjects, such as History of Music, are delivered as lectures to a large group, many subjects are taught in groups of ten students or fewer.

Is this the right course for you?

If you love music and want to understand it – for example, to know how it works, its history and development, how to write music, how to become a more informed performer – this is the course for you. Whether your interests are primarily academic or practical, your experience of this vast and rich subject will be greatly improved in depth and breadth.

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. Because the course includes a wide range of options, you will be able to emphasise the areas that interest you most.

The facilities in the Music Department include a recital room, practice rooms with pianos, an excellent and up-to-date suite of computer workstations that are used for teaching and study, a small music studio (plus more extensive, shared facilities elsewhere), excellent listening equipment, and a substantial lending collection of CDs and videos.

The staff of the Music Department have a wide range of expertise in composition, music technology and musicology. They are here to help you in your exploration of a subject that they chose because they, like you, love it.

As a student at Trinity College you will have access to the largest research library in Ireland. It is also **by far the largest and best-equipped library for music**. In addition to its general holdings of books and music, it houses an extensive listening collection of CDs.

Visit the Department of Music

- If you are considering studying Music at Trinity College but want to be sure, **you are most welcome to attend lectures** at the department at any time during teaching terms. You will also be invited to **discuss your options with a member of the teaching staff**. Contact us by e-mail or phone (see below).

Course content

The Freshman years

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, compositional techniques and music technology.

Subjects include:

- **Aural training** – using moveable Doh (Solfège or Solfa). The course will improve your basic musical skills in areas such as musical dictation, sight-reading, and score-reading.
- **Keyboard skills** – (taught in conjunction with aural training) will enable you to create harmony over a given figured bass, to play four-part harmony, and to transpose up or down a tone or semitone.
- **Introduction to harmony** – an introduction to the writing of four-part harmony.
- **History of music** – an introduction to the music of Baroque and early Classical periods in a broad cultural context (this forms part of a four-year programme of general music history), plus an introduction to research methodologies, and to presentation and style in writing essays.
- **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.
- **Music technology** – includes computer orientation, and introduction to MIDI protocol, audio signals and computer-based notation and sequencing.
- **Introduction to counterpoint** – the conventions of music notation and rudiments, leading to the study of Fuxian species counterpoint, which will enable you to acquire a command of basic polyphonic composition.

In the Senior Freshman (second) year you will continue with the above subjects from the first year while beginning to explore your specialist area – either composition, musicology, or music technology. Single honor students will also select a Broad Curriculum course (see page 14), and TSM students have a wider range of options that includes Broad Curriculum.

The Sophister years

In the Sophister (third and fourth) years study becomes more concentrated on your chosen specialisation. It is always possible to take options from other specialisations.

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

All students may opt to present a recital for up to approximately 10% of their degree. In each year, Sophister students are also offered an option in either aural training or in the playing of figured bass (using either piano or harpsichord). In recent years, other options have included:

- Film music
- Counterpoint and Fugue in three parts
- The German Lied in the 19th century
- Music and language
- Byrd and the politics of polyphony
- Sonata structures
- Experimental theatre music and contemporary opera
- Web design
- Handel and the English oratorio
- Elgar, Newman and The Dream of Gerontius

Assessment

Most subjects are assessed by a combination of formal examination (at the end of the year) and continuous assessment.

Career opportunities

The employment record for Trinity College's graduates in Music is excellent. Recent graduates have established successful careers as composers, as music producers for television, radio, or recording companies, as performers, administrators and teachers, as academics in internationally recognised institutions worldwide, and as conductors. Within the last few years several recent graduates have been commissioned by front-rank organisations such as RTÉ to write new works. Graduates are working in this country and in countries as diverse as the USA, Canada, Germany, Australia, China and England. Music graduates have an outstanding record of obtaining scholarships for further study abroad, from international institutions, as well as from the Arts Council of Ireland. A smaller number have used the analytical and intellectual skills that these courses offer to build successful careers outside music: recent examples include medicine, law, financial investment, and public relations.

Further information

Anyone considering studying Music is welcome to visit the department, in order to sit in on lectures, to speak to members of staff, and to speak to current students. To make an appointment, contact the Music Executive Officer: +353 1 896 1120; musicsec@tcd.ie (office hours: 10.00-16.30, Mondays to Fridays).

Full details of the courses in Music, of the staff and of the curriculum can be accessed via the Music Department's website: www.tcd.ie/Music
Tel: +353 1 896 1120

Music education

COURSE CODES:	TR009
PLACES 2013:	10
POINTS 2012:	525*
DEGREE AWARDED:	B. Mus. Ed.

This is a restricted entry course. Applications must be submitted by 1 February 2014.

Applicants will be required to attend an entrance examination, provisionally scheduled for 29 March 2014.

On the basis of the examination results, some applicants will be called to attend an interview during April/May before final selections are made. Performance will feature as one element of the interview. See page 100 for further details.

Students will be required to undergo Garda vetting, see page 30 for further details.

See also:

TR002: Music, page 97

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 (including Northern Ireland). The degree is taught in conjunction with the Dublin Institute of Technology, Conservatory of Music and Drama, and the Royal Irish Academy of Music.

This four-year programme will equip you with a high standard of performance in your chosen instrument, as well as with an associated competence in related music 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 the history of music.

Is this the right course for you?

If you enjoy music, already have an accomplished 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, supporting 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.



There are approximately fifteen hours of lectures per week, comprising music and education.

Modules Include

- Instrumental/vocal performance – individual tuition
- Aural perception and keyboard skills
- Composition
- History of music
- Irish music
- Practical musicianship
- Conducting
- Special repertoire class for main instrument
- Music technology
- Sociology of music & music education
- Music education and teaching practice
- Applied psychology in education
- Educational philosophy & theory
- Sociologies of education
- Introduction to assessment & examinations in post-primary education
- History of education
- Educational issues
- Research methods in education
- In Senior Sophister year **students study a second subject e.g. English/Irish/Maths. While students will not be registered by the Teaching Council as teachers of the second subject, they may (at a school's discretion) be permitted to teach the second subject up to Junior Certificate level, or beyond.**



Assessment

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

Study abroad

There are opportunities for students to spend part of their Junior Sophister (third) year studying abroad. Our partner Colleges are the Royal Conservatoire of Scotland and the Kodaly Institute, Kecskemét, Hungary.

Career opportunities

The employment record for Trinity College's graduates in Music education is excellent. While most of the students go on to teaching – usually in schools, but also to instrumental teaching, some use the degree as a general arts qualification and go on to work in areas such as orchestral and vocal performance, academia, arts administration, library work, music therapy and music technology. Many students take postgraduate courses – either in related areas such as in music education, musicology, performance, or in a range of other areas including copyright law and publishing. Recent graduates are working in this country and also in countries such as the USA, China, Singapore and England.

Further information

Anyone considering studying Music education is welcome to **visit the School of Education**, to speak to members of staff, and to speak to current students. To make an appointment, contact the Music Education co-ordinator at +353 1 896 1145.

www.tcd.ie/Education/courses/b-mus-ed

www.dit.ie

www.riam.ie

Philosophy

COURSE CODES:	TR005	TR001 (TSM)
PLACES 2013:	20	43
POINTS 2012:	455	440-585
DEGREE AWARDED:	B.A.	

TSM points: See page 31

Philosophy may be studied as a single honor course (TR005), within the Two Subject Moderatorship programme (TSM/TR001), and in the Philosophy, Political Science, Economics and Sociology (TR015) programme.

In TR005 Philosophy is studied for four years.

TR001 (TSM) Philosophy cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme, and an honors degree is awarded in both subjects. See page 40 for a list of the subjects with which Philosophy may be combined.

In TR015 it is possible to study philosophy for the entire four-year degree programme or for a shorter period, see page 102.

What is Philosophy?

Philosophy is the discipline concerned with the questions of how one should live (ethics); what sorts of things exist and what are their essential natures (metaphysics); what counts as genuine knowledge (epistemology); what existence is and what it means to be (ontology); and what are the correct principles of reasoning (logic). It is generally agreed that philosophy is a method, rather than a set of claims, propositions, or theories. Its investigations are, unlike those of religion or superstition, wedded to reason, making no unexamined assumptions and no leaps based purely on analogy, revelation, or authority. In Greek, "philosophy" means "love of wisdom." Philosophy is based on rational argument and appeal to facts. The questions addressed by philosophy remain the most general and most basic, the issues that underlie the sciences and stand at the base of a world-view.

Course overview

In all cases the purpose of the Philosophy course is to give you a solid, scholarly grounding in the classical texts that form the history of Western philosophy, and are one of the formative influences on Western culture. Studying the fundamentals of both formal and informal reasoning will enable you to think independently.

Is this the right course for you?

If you are interested in examining questions regarding the ultimate nature of reality and our knowledge of it, or in questioning society's basic assumptions and in analysing the moral, political, aesthetic and religious questions lying at the heart of our culture in an articulate manner you will find this a stimulating and challenging course.

Course content

The Freshman years

In the first two years, called Junior Freshman and Senior Freshman, you will study foundation courses in the history of philosophy, as well as engage with certain fundamental philosophical problems such as the debates about free will and determinism, the nature of morality, the nature of language, the existence of God, logic, and the scope and limits of human knowledge.

In the TSM programmes where philosophy is studied with another subject there are approximately five hours of classes per week; with double that for the single honor programme.



The Sophister years

In the final two years, called Junior Sophister and Senior Sophister, you are able to set your own syllabus by selecting courses from a reasonably wide choice including political philosophy, ethics, philosophy of religion, and philosophy of mind, among others. In this way you can specialise in the areas of philosophy you have found most interesting and most suitable to your skills.

Assessment

Assessment is by means of both essays and formal examinations with equal importance given to both. In the Senior Sophister year, you will research and write a dissertation.

Career opportunities

In the recent past graduates of Philosophy have worked in areas as diverse as accountancy, academic teaching, journalism, law, T.V. reporting and research, film making, banking, computing and advertising. Each year some graduates also opt to pursue a research career beginning with postgraduate study in Ireland or abroad.

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 College.

Further information

www.tcd.ie/Philosophy/teaching/undergrad.php
Tel: +353 1 896 1529

Student profiles: see course description at:
www.tcd.ie/courses

Philosophy, political science, economics and sociology

COURSE CODES:	TR015
PLACES 2013:	34
POINTS 2012:	535*
DEGREE AWARDED:	B.A.

Special Entry Requirements:

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

See also:

- TR001: TSM, page 40
- TR005: Philosophy, page 100
- TR012: History and political science, page 79
- TR020: Law and political science, page 95
- TR029: Political science and geography, page 105
- TR081: BESS, page 41
- TR083: Sociology and social policy, page 114

Course overview

The aim of this degree is to provide a coherent and integrated introduction to the study of the social sciences and philosophy. It brings together some of the most important approaches to understanding the social and human world, developing skills for a whole range of future careers and activities. The idea behind the programme is that, to understand social and human phenomena, one must approach them from several complementary disciplinary directions and analytical frameworks. By allowing a gradual specialisation over the course of the four-year degree programme, students are assured of obtaining an excellent grounding in one, or at most two, of the disciplines which make up the degree.

In the first three years you take six modules with approximately three teaching hours per week including tutorial classes in each. In the final year there is a reduction in the number of modules taken to recognise the greater commitment to independent work.

Is it the right course for you?

This course will appeal to students who are excited about the challenges of understanding the way societies are organised, governed and create wealth drawing on the methods and insights of philosophical inquiry. If you are puzzled about the ways our world is structured and have a desire to change it, then this may well be the course for you.



Course content

The Freshman years

In the Junior Freshman (first) year you will take all four subjects: economics (introduction to economics, mathematics and statistics), philosophy (central problems in philosophy, history of philosophy), political science (introduction to political science) and sociology (introduction to sociology). In the Senior Freshman (second) year you choose to continue three of the subjects and could, for example, take modules ranging from economic principles, to the history of philosophy to West European politics, to an introduction to social research.

The Sophister years

In the Junior Sophister (third) year you take two of the four subjects and in the Senior Sophister (fourth) year you may take either two subjects or choose to specialise in only one. Students pursuing the equivalent of single honor programmes in their final year will be able to pursue an undergraduate dissertation, and all fourth year modules have elements of project work intended to help develop research skills and the skills of independent enquiry.

PPES at a glance

	Year 2 (6 modules)	Year 3 (6 modules)	Year 4 (4 modules if you select Political science, Economics or Sociology. Please consult the Philosophy handbook for Philosophy requirements)
Philosophy	<ul style="list-style-type: none"> Logic & philosophy of science History of philosophy 	<ul style="list-style-type: none"> Political philosophy Topics in ancient philosophy Topics in analytic philosophy Moral philosophy Philosophy of religion Logic and philosophy Topics in Continental philosophy Philosophy of fiction 	<ul style="list-style-type: none"> Ancient philosophy Ethics Psychology/philosophy Metaphysics Philosophy of language Epistemology Post-Kantian philosophy Wittgenstein's later philosophy Philosophy dissertation General paper
Political science	<ul style="list-style-type: none"> History of political thought International relations Comparative politics 	<ul style="list-style-type: none"> Research methods for political scientists Irish politics Democracy and development European Union politics 	<ul style="list-style-type: none"> Research seminar Contemporary political theories Political parties Issues in contemporary politics Contemporary international relations African politics Topics in political science
Economics	<ul style="list-style-type: none"> Intermediate economics Mathematics and statistical methods 	<ul style="list-style-type: none"> Economic analysis Money and banking The European economy Economics of less developed countries Investment analysis Economics of policy issues Industrial economics Mathematical economics Econometrics 	<ul style="list-style-type: none"> Economic theory Economics of financial markets Transport economics International economics Quantitative methods Monetary thought and policy Economic and legal aspects of competition Economics dissertation
Sociology	<ul style="list-style-type: none"> Gender, culture and society European societies Introduction to social research 	<ul style="list-style-type: none"> Social theory and social inequality Race, ethnicity and identity Globalisation and development Researching society Social policy and inequality 	<ul style="list-style-type: none"> Economic sociology of Europe Conflict studies Popular culture and digital lives Migration Dissertation

The table 'PPES at a glance' (see above) gives you a sense of the richness and diversity of modules that are available within PPES in the second, third and fourth years.

Assessment

Modules are examined by a combination of continuous assessment and formal examination.

Career opportunities

The range of disciplines to which students are exposed in this degree give you the insights and competencies to pursue careers in a variety of areas including public administration, teaching, journalism, media, law and management.

Did you know?

- This degree programme is unique in Ireland in offering a dedicated introduction to the social sciences and philosophy.

Further information

www.social-phil.tcd.ie/PPES
Tel: +353 1 896 1840

Political science

Political science may be studied through five degree programmes:

TR012 History and political science, page 79

TR015 Philosophy, political science, economics and sociology (PPES), page 102

TR020 Law and political science, page 95

TR029 Political science and geography, page 105

TR081 Business, economic and social studies (BESS), page 41

What is Political science?

Political science is the field concerning the theory and practice of politics and the description and analysis of political systems and political behaviour. Politics affects us all in our daily lives. It's easy to think of issues that we all have opinions about. Should government tax the rich to try to achieve greater equality? Should it introduce 'green taxes' in order to protect the environment? Should third-level students have to pay fees? Should abortion be legalised? Should the amount of money the EU spends on the agricultural sector be cut back drastically? How high a priority should third world aid be? All of these questions will be decided through the political process.

The study of politics as an academic subject involves, among other things, thinking about how these decisions get made. If it's not possible to keep everyone happy when some issue has to be decided, whose views prevail and why? If governments do not always make what seems to be the most 'rational' decision on economic policy or some other issue, why not? How much say do ordinary people have in policy-making, and is it feasible to make the decision-making process more open? Can governments do pretty much what they want, or are they so constrained by other factors such as interest groups, the courts, the European Union, the constitution, and the sheer pressure of events, that in practice they have very little freedom of manoeuvre? Questions such as these are at the heart of the study of politics.

And, taking a step back from the debates of contemporary politics, political theorists ponder more fundamental questions to do with normative issues – the 'should' questions – rather than ones that can be resolved by evidence. These days, pretty much everyone is in favour of justice and democracy – but what do these terms mean? If a society is to be run justly, what would this entail? Such topics have been discussed since the time of the ancient Greeks.

Is this the right course for you?

Politics in the modern world touches everybody in nearly every aspect of their life. If you want to raise your knowledge beyond the level of public affairs, the study of political science will give you the necessary tools.

Course content

See the individual course descriptions for History and political science; Philosophy, political science, economics and sociology (PPES); Law and political science; Political science and geography; and Business, economic and social studies (BESS).

Assessment

Courses are examined by a combination of assessed essays and formal examination. In the Senior Sophister (fourth) year students specialising in Political science will have the opportunity to research and write up a dissertation on a topic of their choice.

Normally, each course has two hours of lectures and one tutorial per week. Fewer lecture hours are required in the Senior Sophister year to allow time for more independent work.

Study abroad

The Department of Political Science is a partner in Erasmus exchanges with the Institut d'études politiques in Strasbourg and Paris, the University of Zurich in tandem with the affiliated ETH Zurich and University of Mannheim. Students taking Political science as a subject in joint honors courses may also go abroad on an exchange administered by their other department, subject to approval of their course of study abroad by the Department of Political Science. There is close co-operation among the four departments involved in the BESS programme (Business Studies, Economics, Political Science and Sociology).

Career opportunities

There are careers for which a demonstrated interest in politics is a definite plus and gives you a real head start. Journalism, other kinds of media work, the civil service, public relations, anything in business that requires knowing how government works, work in international organisations such as the EU or a not-for-profit organisation, all come into this category. A demonstrated knowledge of how the world works is obviously an asset for many types of career. An increasing number of graduates go on to do further study by means of postgraduate work. And, with a politics degree, you could even get elected as a TD!


Did you know?

- Trinity College Dublin is ranked 31st in the world in Politics & International Studies (by the QS World University Rankings 2013).

Further information

www.tcd.ie/Political_Science/undergraduate/index.php

Tel: +353 1 896 1651

 www.facebook.com/poli.scitcd

 <https://twitter.com/TCDPoliticalSci>

Political science and geography

COURSE CODES:	TR029
PLACES 2013:	20
POINTS 2012:	435
DEGREE AWARDED:	B.A.

See also:

TR001: Geography, page 73
 TR012: History and political science, page 79
 TR015: Philosophy, political science, economics and sociology, page 102
 TR020: Law and political science, page 95
 TR071: Science, page 143
 TR081: BESS, page 41

Course overview

In a rapidly changing international economic, political, security and environmental context the tools of political science and geography are becoming increasingly important to analyse global problems and provide policy solutions. This course combines analytical rigour with an understanding of real-world variations and complexities. The two disciplines have been associated through the sub-fields of political geography, which covers geographical differences in voting patterns, for example, and through geo-politics, which examines how the great powers influence other parts of the planet. However, in a context of globalisation, interdisciplinary understandings of socio-environmental issues are becoming increasingly key in solving the problems of the future, such as adaptation to climate change in the developing world.

Is this the right course for you?

Yes, if you are interested in the disciplines of political science and geography and you hope to develop a critical understanding of the relationship between the Earth's natural and human phenomena and its political institutions and systems.

Course content

In the first three years you will take twelve courses that will each require attendance, on average, of two hours of lectures and one tutorial per week. In the Senior Sophister (fourth) year there is a reduction in the number of courses required to allow greater depth of study and more independent work.

The Freshman years

In the first two years, called Junior Freshman and Senior Freshman, you will study foundation courses covering (i) Introduction to geography I (Physical), II (Human-physical environment interface) and III (Human); Changing environments; Human geography – changing worlds, and Geography

seminars; (ii) Introduction to political science, Introduction to sociology, Introduction to economic policy, Comparative politics, International relations, and the History of political thought.

The Junior Sophister year

In the Junior Sophister (third) year students take each subject equally. On the geography side two courses are mandatory with the other four courses being drawn from a list of options. The mandatory geography courses are Geographic information systems, and History and philosophy of geography (see www.tcd.ie/Geography for more information). For those students planning to continue geography in the Senior Sophister (fourth) year as their sole subject, Advanced research methods in geography is also compulsory. On the political-science side, students may take any three options (see www.tcd.ie/Political_Science/undergraduate/timetable to view the courses currently offered); students intending to take political science alone in the fourth year must take Research methods for political scientists in their third year.

The Senior Sophister year

In the Senior Sophister (fourth) year, students may take both subjects equally or one subject alone. For students taking geography or political science as their sole subject in this year a research thesis or dissertation is compulsory. See www.tcd.ie/Geography/undergraduate/modules/year4 to view the current courses offered for Senior Sophisters (fourth-year students) in geography and www.tcd.ie/Political_Science/undergraduate/timetable for those offered in political science.

Study abroad

There are opportunities for students to spend all or part of the third year studying abroad in the United Kingdom, France, the Netherlands, Sweden, Poland or Spain. Participating in these opportunities is dependent upon the exchange fulfilling the course requirements of both departments.

Assessment

Courses are examined by a combination of continuous assessment and formal examination.

Career opportunities

Careers for graduates lie in fields such as public and European affairs, overseas assistance, resource management and risk assessment, the supply of environmental-related advice to governments and industry, the study and practice of environmental policymaking, and teaching and higher education.

Further information

http://www.tcd.ie/Political_Science/undergraduate/political-science-geography/
 Tel: +353 1 896 1576
www.tcd.ie/Political_Science/undergraduate
 Tel: +353 1 896 1651

Psychology

COURSE CODES:	TR006	TR001(TSM)
PLACES 2013:	31	17
POINTS 2012:	565*	580- 585
DEGREE AWARDED:	B.A.	
TSM points:	See page 31	

TR006 – Psychology is a single honor course where psychology is read almost exclusively for four years.

TR001 (TSM) – Psychology may be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with Psychology see page 40.

Single honor and TSM students follow the same courses. However, while TSM students cover all the principal areas of psychology, the workload is less extensive than that of the single honor programme.

What is Psychology?

Psychology is the scientific study of human behaviour and mental processes. Although taught in the Faculty of Arts, Humanities and Social Sciences, 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.

There are five thematic areas in psychology: Biological, Cognitive, Developmental, Personality and individual differences, and Social psychology.

Is this the right course for you?

Psychology is a rigorous, fascinating and demanding field of the life sciences. If you are interested in the factors influencing human thinking, feeling and behaviour, as individuals and in groups, you will enjoy this course. The School of Psychology is committed to excellence in education and training at all levels, and aims to offer a knowledge base and a set of skills that not only equip students for the many careers that exist in psychology, but also prepare students intellectually for other careers. Psychology is a branch of science that demands clear, rigorous thinking, numeracy and the ability to define, study and solve problems in complex, changing settings. Psychology educates and trains students to be aware of the factors influencing human thinking, feeling and behaving, as individuals and in groups. Such abilities are highly transferable to many different spheres of life. Psychology is also an applied science that deals with how people act and behave in the real world. It provides support for families in their social life and work, through clinical and counselling interventions.

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.

During lecture term, single honor students spend approximately 10-12 hours per week (5-6 hours for TSM students) receiving tuition such as lectures, seminars and laboratory practicals.

The Freshman years

The Junior and Senior Freshman (first and second) years of both the single honor and TSM programmes provide a broad foundation on which more advanced course work is built in the Sophister (third and fourth) years. In addition, modules in methodology and statistics enable students to develop their research skills in a systematic fashion. Training in academic skills is also provided which enable you to build the skills required to write essays, to develop an attitude of scepticism and to develop independent, critical thinking.

As a Freshman student, you will take foundation-level modules in a range of areas such as:

- Introduction to psychology
- Social psychology
- Perception
- History of psychology
- Psychological disorder
- Developmental psychology
- Cognition
- Fundamentals of neuroscience and behaviour
- Evolutionary psychology
- Personality and individual differences

You will also be given the opportunity to take a module/modules from the Broad Curriculum options (see page 14).

Research methods, statistics and laboratory practicals

Modules in research methods and statistical analysis, which include laboratory practicals are provided in the Freshman years. These 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. Some of the practicals are related to the foundation courses and provide hands-on experience of carrying out research in different areas of psychology. Other practicals concentrate on statistical description and analysis and key research-related skills, such as literature searching.

The Sophister years

By the Junior Sophister (third) year you will have identified areas within psychology that are of particular interest to you and you will have the opportunity to develop these interests throughout the Sophister years. In addition to a number of core advanced modules, you will choose modules from a series of advanced options. These optional modules 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 options you select may also help you to make decisions about your future career, if it is to be in psychology. Single honor students and TSM students majoring in Psychology also take additional modules in research methods and statistics.

On completion of the Sophister years, students must have taken at least one module from each of the five specified thematic areas. The following table shows the kind of modules which have been offered within each of these areas:

Biological

- Neurological rehabilitation
- Behavioural neuroscience
- Memory, synaptic plasticity and the brain
- Clinical and experimental neuropsychology

Social

- Culture and health
- The social self: Theory and measurement
- Organisational psychology
- Social neuroscience

Developmental

- Child development in changing family contexts
- Debates in child psychology
- Language and language disorders
- Applied issues in developmental psychology

Cognitive

- Rationality and reasoning
- Creativity and imagination
- Cross-modal cognition
- Development of perception throughout the lifespan

Personality and individual differences

- Clinical cases
- Advanced individual differences
- Embodiment
- Human sexuality
- Health psychology

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 (fourth) year a large part of your workload involves carrying out an independent **research project** under the supervision of a member of staff. Typically, the topic you choose to investigate will coincide with your supervisor's own research work, giving you all the benefits and support of an active and accessible research group. Many students report that this project, while challenging, is one of the most rewarding parts of the course.

Assessment

A combination of end-of-year written examinations and continuous assessment is used. In your final year, you will also submit a report of your research project.

Study abroad

Second and third-year undergraduates are eligible to apply to study for one or more terms (students usually go for a whole academic year) in certain other European psychology schools, with travel, and where appropriate, some subsistence funding provided by the EU Erasmus fund. There are no basic course charges to be paid abroad. Assessment is carried out in the host (i.e. foreign) institution and is accepted by TCD as if students were examined here. This School has bilateral agreements with several European universities where arrangements have been made for students to study.

Career opportunities

Many psychology graduates proceed to a career in professional psychology through professional training or higher education in areas related to psychology. The School of Psychology offers a range of postgraduate programmes including professional doctorates in Clinical psychology and Counselling psychology, Masters courses in Applied psychology, Applied behaviour analysis and Clinical supervision, a postgraduate diploma in Applied behaviour analysis as well as research M.Sc. and PhD degrees. However, the advanced understanding of human behaviour and experience and the wide range of skills developed during the course have allowed students to enter many professions, ranging from management, marketing, advertising and accountancy, to journalism, broadcast media, teaching and recruitment. Seminars about career development will be provided by the School during the course of your degree.



Did you know?

- Trinity College's School of Psychology was ranked in the world top 100 universities for Psychology in the QS World University Rankings 2013. As well as offering high-quality teaching, the School of Psychology collaborates with a number of other disciplines through the Children's Research Centre, Neuroscience Institute, Centre for Global Health, and the Centre for Innovative Human Systems (all based on Trinity College's campus). Students are encouraged to become actively involved in our ongoing research, particularly in the third and fourth years of College.

Psychology degree and professional qualifications

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. TSM students for whom Psychology is the minor subject (studied for only three years) are not eligible for graduate membership of the society.

Progression into the profession of psychology, however, requires further training at postgraduate level. For example, clinical and counselling psychology typically lasts for 3 years, health psychology for 2 years and occupational psychology for 1 year.

Further information

www.psychology.tcd.ie
Tel: + 353 1 896 1886

Catholic theological studies

COURSE CODES:	TR030
PLACES 2013:	15
POINTS 2012:	n/a
DEGREE AWARDED:	B.A.

See also:

TR008/001: World religions and theology, page 109

Course overview

Theology is a fascinating and vital subject that challenges those who study it to think critically about God, human existence, the world we live in and the role of religion in our lives. Catholic theological studies is designed to provide students with knowledge of the Catholic theological, intellectual and cultural tradition and the critical issues that arise in the study of its origins, formative periods, and foundational documents. Students will be provided with the skills and ethical understanding to participate in current debates about the place of the Catholic intellectual tradition in a globalised world.

Is this the right course for you?

If you have interest in some of the most profound questions concerning God and humanity this is the course for you. If you seek a sophisticated engagement with Catholic intellectual, ethical and cultural traditions in dialogue with peoples of other living faiths, this is certainly the course for you. If you are interested in analysing the moral, religious and political questions lying at the heart of our culture, you will find this a stimulating and challenging course.

Course content

In the first year, students are introduced to the variety of disciplines that make up Catholic theological studies. These include, amongst others, Biblical studies (Hebrew Bible and the New Testament), theological ethics and liturgical theology. There is also an introduction to philosophy and to the many different academic approaches to the study of religion today. In the second and third year, students engage in a progressively deeper study of the subject matter of these disciplines. A study of the cultural expressions of Catholic Christianity through the ages is a significant theme. The possibility of language studies in Latin, Greek or Hebrew is offered. In the fourth year students have options for the study of advanced topics in these disciplines and are given appropriate guidance in writing a research dissertation.

Assessment

Assessment will be by 1,500 word essays, in-course tests and annual examinations.

Career opportunities

Graduates in theology find employment in fields such as education, social work, business management, the church, the performing arts and the charity sector. The skills and personal qualities they develop over the course of their studies are easily transferable to all sorts of jobs and careers. Thinking clearly, writing well, presenting arguments, analysing texts, assessing evidence, pursuing and organising research: these are all skills that serve students well in all walks of life.

Further information

If you are considering studying Catholic theology you are welcome to contact Dr. Cornelius Casey, the Director of the Loyola Institute: cocasey@tcd.ie

Further information can be found on the Loyola Institute website:

www.tcd.ie/loyola-Institute



World religions and theology

COURSE CODES:	TR008	TR001 (TSM)
PLACES 2013:	15	24
POINTS 2012:	365	390*-580*
DEGREE AWARDED:	B.A.	

TSM points: See page 31

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

TR001 – World religions and theology (TSM) must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with World religions and theology see page 40.

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

See also:

TR030: Catholic theological studies, page 108

Course overview

This subject studies religion both as a cultural force that influences worldviews, practices, and institutions, and as distinct traditions, from the monotheistic religions that have shaped Western cultural history to the religions of Asia and Africa. Their origins and scriptures, practices and self-understandings and their histories of translation, reception and encounter from antiquity to the present age are studied in a non-denominational setting. This subject has been taught in Trinity College since its foundation in 1592.

Is this the right course for you?

The study of religions has never been more relevant than it is in today's globalised world. If you are interested in the sources of distinct religions and cultures, their histories of thought and ethics, their encounters and transformations, you will thrive in this course.

Course content

In taking this four-year arts degree, you will engage in broad introductions as well as in depth analyses of religious traditions and of the approaches used to examine them. You will get to know the contributions of different disciplines, such as history, archaeology, art, philology, philosophy, psychology, sociology, literary and cultural studies, to examine the diversity of religions and the changing understanding of religion in their cultural and historical contexts. You will be able to trace major

transformations in Western culture from its roots in biblical monotheism and antique philosophy to the present day, and discuss contemporary issues such as science and religion, ethics and technology. You will explore perspectives from other ancient and contemporary religions and get to know their literary, ethical and artistic resources.

The Freshman years

In the Junior Freshman (first) year you will engage in overviews and textual studies of world religions, of the Bible in its historical contexts, of theology and of the history of religions. In your Senior Freshman (second) year you will be able to take up a language – Hebrew, Greek or Arabic, and choose from a range of courses depending on the individual interests you have discovered in your first year. Courses are taught by lectures, class presentations and small-group discussions. There are twelve to fourteen contact hours per week. In your first year you will study a range of introductory courses on topics such as:

- Introduction to world religions and the History of religions
- Introduction to biblical studies
- Introduction to theology
- Introduction to religious studies and to philosophy
- The Abrahamic faiths and their reception in histories of thought and art
- Religions from the first to the twenty-first century

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

- Origins and sacred texts of Judaism, Christianity, and Islam
- Ancient languages, especially Greek and Hebrew
- The philosophical and theological debates between Jewish, Christian and Islamic thinkers in the Middle Ages
- Popular religion, alternative forms of religiosity and new religious movements
- Key controversies in Western religious and philosophical thought
- Asian religious traditions and their histories
- Religion, media, and the public sphere
- Philosophical and theological approaches to God
- Biomedical ethics, including issues such as genetic enhancement and transhumanism

Students in the second year may substitute a Broad Curriculum course (see page 14) for one of these half year courses.

The Sophister years

In the Sophister (third and fourth) years you will learn to analyse and assess texts for their starting-points, steps of argumentation and practical conclusions, and develop the critical thinking skills, interpretive and comparative competences typical for arts and humanities graduates. You will deepen your understanding of 3000 years of religious and cultural self-understandings and become adept at distinguishing the contribution of different disciplines and methodologies. Topics include

- Historical and literary approaches to biblical texts
- Hermeneutics (the theory and practice of interpretation)
- Classical thinkers and contemporary theories of religion
- Popular religion
- Reformation and Enlightenment
- Ethics in modernity
- World Christianities
- The Dead Sea Scrolls
- Theological ethics and ecology
- Meals in Early Christianity
- Religion and art

In the Senior Sophister (fourth) year you will write a thesis of 15,000 words with a supervisor chosen from an area that you want to specialise in. You will learn to work out careful argumentations and critical discussions of research literature on the topic of your choice.

Students not only encounter religious cultures in the lecture theatre and libraries, but also enjoy excursions to local museums and libraries (e.g. the Chester Beatty Library, Marsh's Library), visits to local religious centres and other cultural destinations central to the history of religious traditions. A range of extracurricular activities is available, such as participation in lively College societies (e.g. the Theological society "Theo") to **lectures by internationally acclaimed speakers.**

Assessment

Students write between five to six essays per semester depending on whether they choose a language module. In addition they sit end of the year examinations for six courses (three for TSM students).

Study abroad

A student exchange programme offers you the opportunity to spend up to a year at the University of Leuven in Belgium, the University of Glasgow in Scotland or other universities open to TCD students, e.g. in the US and Canada.



Career opportunities

The course in World religions and theology is an arts degree and shares many features of other arts degrees in Trinity College. A knowledge of the cultures, values and histories of different societies in the global community is an asset for many types of careers. Students graduate with an understanding of the challenges and opportunities which multi-cultural societies present. This understanding is of particular value to those who pursue careers in media, education, public policy making, human resources and health care professions, law and business. Graduates have skills which are highly valued by potential employers, leading to careers in publishing, media, business, education, cultural institutions, non-government organisations, migrant services, law, psychology, and healthcare. Many of our graduates go on for postgraduate studies at Trinity College and first tier universities around the world. Trinity College's Careers Advisory Service recently surveyed employers about what they looked for in arts graduates and top of the list came: enthusiasm for the position, personal qualities and transferable skills such as good oral communication, analytical ability, critical thinking, presentation techniques, team work and problem solving. Students of religions and theology have ample opportunity to develop all of these skills within a department which is relatively small and very student centred.

Further information

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

Russian

COURSE CODES: TR001 (TSM)
PLACES 2013: 36
POINTS 2012: 430*-555
DEGREE AWARDED: B.A.

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate	HC3	In a language other than English
Advanced GCE (A-Level)	Grade C	In a language other than English

Russian (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects.

For subjects that combine with Russian see page 40.

See also:

TR024: European studies – Russian with French/German/Italian/Polish or Spanish, page 67

TR087: Business studies and Russian, page 44

TR089: Business studies and Polish, page 44

Why study Russian?

Russian is the native language of nearly 150 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 College students and graduates. Russian writers, musicians and artists have made a considerable contribution to European culture; Russian history has helped shape Europe as we know it today: exploring Russia's past and present helps understand the interaction between Europe's eastern and western traditions.

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.

Course content

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

In addition to language study, you will take courses on aspects of Russian literature, Russian history and Russian culture,

society and politics. In later years, you will also have the option to study the Polish language and other Slavonic languages.

The Freshman years

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

- Russian language: develops fluency in reading, writing, speaking and listening
- Russian literary and cultural studies
- Central, East European and Russian area studies

In the first two years there are approximately ten hours of class time per week, divided between language work and literary, cultural or area studies.

The Sophister years

In addition to advanced language study, the Sophister (third and fourth) years of your course offer a wider range of subject choices, allowing you to choose options that reflect your own particular interests. These include Russian literature, history of Russia and the Soviet Union, Russian society and politics, and the Polish language. If you elect to study Russian in your final year you will also research and write a dissertation on a subject of your own choice.

Assessment

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

Study abroad

You will be encouraged to spend up to a year studying in Russia after second or third year (2 months is the minimum period abroad). Trinity College has close connections with universities and institutes in Moscow, St. Petersburg and in a number of provincial towns.

Career opportunities

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

Did you know?

- Trinity College is the only university in Ireland where you have the opportunity to study Russian to degree level.

Further information

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

Social studies (social work)

COURSE CODES:	TR084
PLACES 2013:	45
POINTS 2012:	465
DEGREE AWARDED:	B.S.S.

TSM points: See page 31

Students will be required to undergo Garda vetting, see page 30 for further details.

Course overview

The degree in social studies (B.S.S.) is the only undergraduate course in Leinster that provides students with a professional social work qualification, which is recognised by the national Social Work Registration Board. It is an intensive programme which aims to help you become a reflective and proactive social worker who will make a significant contribution across a broad range of statutory, voluntary and community services.

Is this the right course for you?

Social studies is the right course for you if you wish to work in one of the caring professions and think social work is the one closest to your interests. Most importantly it is the right course for you if you believe you have the personal qualities and motivation necessary for this line of work. Potential applicants are advised to find out what social workers do before they apply.

Course content

This course introduces you to a wide range of social science subjects in the Junior Freshman (first) year, and then increases the number of social work subjects in the following three years. Teaching methods are varied and interactive and draw on your personal and practice experience.

The Freshman years

Junior Freshman (first year) subjects include introductions to social work, psychology, social policy, sociology, economic policy and political science. Optional courses in either French or German are also available (see page 14). In first year, there are approximately 12-14 hours in lectures, 3-4 hours in tutorial classes and several hours in the library each week. If you have had no relevant practice experience before starting the degree, we ask you to do 30 hours (2-3 hours per week) volunteer work during first year to build your confidence and help you to apply what you are learning to a real-world situation. Junior Freshman students are also provided with the opportunity to undertake a six week placement related to the course (see below for further details).

In the Senior Freshman (second) year, core subjects are social work theory and practice, law for social workers, social policy, psychology and social research. In addition, you can either continue your language studies or choose one elective course from sociology, politics, or economics. Senior Freshman students can also avail of the opportunity to take a Broad Curriculum module in this year (see page 14). The social work courses involve field trips to relevant organisations and services. In addition students undertake a ten week placement during this academic year.

The Sophister years

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

- Family and child care studies
- Social policy
- Sociology
- Mental health
- Equality issues
- Group work
- Human rights law
- Social work theory and practice, including counselling skills and practice workshops

Assessment

Assessment includes essays, case studies, projects, examinations and placement reports.

Professional practice

In each of the four years you will have a placement in a different social service agency under the supervision of an experienced practitioner. These placements provide you with practice experience and an opportunity to apply and develop the skills and knowledge that you have acquired in College. Placements are arranged in settings such as health service community care teams, hospital social work departments, child and family centres, probation service, and community development projects. They account for approximately 50% of your course time (215 days) over the four years and take place at the end of each of the Freshman years and mostly in term time in the Sophister years. **Overseas placements** are possible (but not obligatory) within the course structure for those who are interested in gaining relevant experience in another country (e.g. Britain, North America, South Africa). You are supported in your professional development by an individual social work tutor who meets you regularly and visits you on placement from third year onwards.



Career opportunities

As a social studies graduate of Trinity College Dublin, you are eligible to apply to register as a professionally qualified social worker with CORU (The Health and Social Care Professionals Council). Your qualification will also be recognised in many other countries. You also have a good social science degree which allows you to move into policy, media, research or NGO project work. As a social worker, you can continue your professional development through postgraduate courses and can move into management, research or training.

Did you know?

The B.S.S. degree is unique in

- offering a direct route to social work qualification for school-leavers in Leinster,
- offering each student four placements in practice-related settings,
- offering each student the individual support of both a College tutor and a social work tutor.

Further information

www.socialwork-socialpolicy.tcd.ie

www.facebook.com/swsp.tcd

https://twitter.com/SWSP_TCD

E-mail: social.studies@tcd.ie

Tel: +353 1 896 2001

Student profiles: see course description at www.tcd.ie/courses

Sociology

COURSE CODES:	TR001 (TSM)
PLACES 2013:	59
POINTS 2012:	415-580
DEGREE AWARDED:	B.A.

TSM points: See page 31

Sociology at Trinity College may be studied through four different degree programmes: TR001 (TSM), TR015 (PPES), TR081 (BESS), and TR083 (Sociology and social policy).

Sociology (TR001) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. See page 40 for a list of the subjects that can be combined with Sociology.

Within BESS (TR081), after a common first year, students choose 6 modules in the second year and then proceed to either specialise in Sociology or to combine it with one of Economics, Political science or Business. See page 41.

Philosophy, political science, economics and sociology (PPES/TR015) has a similar structure to BESS but with Philosophy replacing Business as a subject. See page 102.

See also:

TR015: Philosophy, political science, economics and sociology (PPES), page 102

TR081: Business, economic and social studies (BESS), page 41

TR083: Sociology and social policy, page 114

What is Sociology?

If you are curious about people and society, then sociology is for you. As an area of university study, it includes numerous ways of understanding, describing and analysing society. Ireland and the world are currently experiencing rapid processes of social change. The old world is changing, but what will the new world be like, and how can we participate in its development? Sociology is foremost among the social sciences in its understanding of social change.

We teach modules in a wide variety of areas of sociology. Staff members include experts on culture and identity, work and employment in Europe, migration, education, multiculturalism and ethnicity, gender, conflict resolution, social policy, development and globalisation. Our modules cover Ireland, the wider European society, the non-European world and the global arena. You will also learn key skills such as critical thinking, problem solving, good communication and social research skills.

Course overview

Sociology provides you with a comprehensive understanding of the rapidly changing nature of contemporary society. With core themes in migration, race and gender, conflict studies, digitalisation, identities and employment studies, you will gain a critical perspective on a variety of social issues. The first two years are more general and foundational in nature while the third and fourth years are characterised by smaller, more intimate classes that attempt to challenge you intellectually and encourage problem solving and critical thinking skills. **There are opportunities to participate in a wide variety of study abroad and work abroad programmes organised by the Department.**

Is it the right course for you?

If you want to understand the social changes taking place in the world today, and you are curious about people and society, then Sociology is for you. As a recent graduate put it, Sociology explains how the great sociological thinkers predicted the ills of modern society from social isolation to empty hospital wards. It questions the future of whether India can and will become the next China, and whether the internet will undermine traditional communities. It explains the underlying reasons why European societies are culturally so different. It tackles the big social issues of conflict, race, migration, gender and popular culture. It teaches you how to understand, research and explain all of these topics in a logical organised fashion. You will also gain the ability to understand topical issues and to present and communicate information and thoughts coherently.

Course content

The Freshman years

Sociology teaching in the Freshman (first two) years emphasises the understanding of the basic principles of sociology and the acquisition of both quantitative and qualitative skills necessary for more in-depth study. In the Junior Freshman (first) year, you are introduced to the distinctive questions that sociologists ask about human society, and the theories and concepts used in the search for answers. You have approximately 6 hours of lectures and 3 hours of tutorials per week in sociology. In the Senior Freshman (second) year, you study issues around gender and society in different cultures; European societies; power, state and social movements, and are introduced to sociological research methods.

The Sophister years

Specialisation in sociological topic areas, and more advanced analysis, research and presentation skills are provided in the Sophister (third and fourth) years. In your Junior Sophister (third) year, you learn about social theory, globalisation and development, race, ethnicity and identity, social inequality, and carry out research projects involving analysis of both numerical data from surveys, and verbal data that are the outcomes of recorded interviews and focus groups. The Senior Sophister year offers modules in a variety of topic areas, including popular culture and digital lives, the economic sociology of Europe,

migration, and conflict studies. You have the opportunity to carry out your own **independent research project** from start to finish on a topic of your choice (recent projects included: Immigration and the prison system, Unmarried fathers' participation in their children's lives, and Counter-urbanisation in the Irish countryside). **Many students find this a great asset when talking to employers and applying for jobs.**

Assessment

Modules are examined by a combination of continuous assessment including essays, portfolios, individual and group presentations, and the formal end-of-year examination. In addition, students specialising exclusively in sociology in their final year may choose to complete a dissertation. Lectures and tutorials take up 6 to 10 hours a week, depending on the year.

Study abroad

Around one third of Sociology undergraduate students participate in Erasmus and non-EU international exchanges. You may participate in full-year or half-year exchanges with European partner institutions in France, Germany, Sweden, Finland, Turkey, the Czech Republic, Malta, Denmark and the Netherlands, as well as non-European partner institutions in Australia, Singapore, China, Canada and the USA in your third year. Most of these universities offer their courses through English.

Career opportunities

Sociology graduates find that their broad training and appreciation of how society and people work means they can thrive in careers in the media, journalism, consulting, academia and teaching, policy analysis, non-governmental organisations, management, and advisory roles in the public service. Graduates are working for organisations as diverse as Goodbody Stockbrokers, the ESRI, the Abbey Theatre, the Department of Foreign Affairs, Friends of the Earth and Enterprise Ireland.

Did you know?

- Sociology was first taught in Trinity College in 1968. The Department is the only Irish institution to feature in the Top 100 QS World University Subject Rankings for sociology in 2013.
- The Department of Sociology is internationally known for its work on race and ethnicity with particular strengths in migration. Other research themes include conflict and social movements, employment and work in Europe as well as digital lives and social networks.
- The Department recently won two Provost's Teaching Awards for outstanding contribution in the pursuit of teaching excellence.
- More than one third of undergraduate students participate in mobility programmes such as studying or working abroad.

Student Profile

Peter Robert Gardner

"I came to Trinity planning to study economics, however I found the Senior Freshman modules in sociology (especially 'Anthropology of Gender' and 'European Societies') so fascinating that I decided to change to single honours sociology.

Sociology alters the lens through which we view the world. It provides us with a means of critically taking apart everything held to be obvious or normal in society, and so to better understand social phenomena. Sociology at Trinity supplied me with the chance to take apart issues of race, ethnicity, gender, popular culture, globalisation, developing societies, migration patterns and conflict zones. After graduating I decided to continue studying sociology at Trinity, taking a masters in Race, Ethnicity, Conflict, and I hope to pursue a career in academics. Through the lectures, reading material, discussions with students and lecturers, and the general academic environment, Sociology at Trinity has been invaluable to me in my development."

Further information

www.tcd.ie/sociology

E-mail: sociology@tcd.ie

Tel: +353 1 896 2701

 Join 'Department of Sociology, Trinity College Dublin' on Facebook!



Sociology and social policy

COURSE CODES:	TR083
PLACES 2013:	28
POINTS 2012:	415
DEGREE AWARDED:	B.A.

See also:

TR001: TSM, page 40

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 the social and economic policies utilised in different countries. At the end of your four years you should have developed both a general sociological understanding and specific expertise in various contemporary policy issues.

Is this course right for you?

This course demands both academic and vocational qualities. It is particularly relevant to students intending to pursue a career in research, social policy analysis and evaluation, management and planning within the social services, both voluntary and statutory.

Course content

The subjects studied include general social science disciplines such as economics and politics, and specialist areas such as family policy, welfare policy, criminology and the extent of poverty and inequality. The Freshman (first two) years are more general and foundational in nature, while the Sophister (third and fourth) years will focus more specifically on sociology and social policy. A strength of the course is that it explores these issues in a genuinely comparative context. Teaching methods include lectures, seminars and group project work.

The Freshman years

In the first and second years you will take introductory modules in economic policy, political science, social policy and sociology. **Optional modules include statistics, law, and psychology along with a range of language modules** (French, German, Russian, and Polish). The Senior Freshman (second) year places greater emphasis on social policy and sociology modules, as well as the introduction to social research methods. You also have the choice of taking a complementary subject, such as psychology, or you may continue your language study.

In the Freshman years, students take six modules, with typically two lectures and one tutorial per week for each module.

The Sophister years

The choice of subjects available in the Sophister (third and fourth) years typically include:

- Ageing and dementia
- Comparative welfare states
- Crime and social policy
- Economic sociology of Europe
- Economics of less developed countries
- European public policy
- European Union politics
- Families and family policy
- Gender and popular culture
- Government and politics of the United States
- Irish politics
- Poverty, inequality and redistribution
- Public interest law
- International law
- Researching society
- Social theory
- Globalisation and development
- Race, ethnicity and identity
- Social policy and inequality
- Democracy and development
- Migration
- Popular culture and digital lives
- Conflict studies
- Dissertation

Many of these modules deal specifically with Ireland and with European society. In the final year you will research and write a dissertation on a topic of your choice.

Assessment

A combination of continuous assessment, class presentations and written examinations is generally used.

Career opportunities

The range of employment opportunities in the area of social and public policy is expanding all the time. The B.A. in 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. Graduates of the programme are also employed as social researchers, policy analysts and journalists.

Postgraduate opportunities

The course provides a solid foundation for specialist postgraduate courses, in the areas of social research, social policy and social work.

Did you know?

- Research centres focussing on Ageing, Children, Intellectual disability, and Drug and alcohol policy are situated within the School of Social Work and Social Policy.
- In addition, one or more School members have research interests and expertise in the following areas: Crime and social policy; Poverty and social security; Housing and homelessness; Family policy; Immigration; Lone parents; History of social policy; Social work.

Further information

Course Office:

www.social-phil.tcd.ie/socpol

Tel: +353 1 896 1840

E-mail: courseoffice@tcd.ie

www.socialwork-socialpolicy.tcd.ie and

www.tcd.ie/Sociology

Tel: +353 1 896 2001

E-mail: socpol@tcd.ie

Student Profile

Aoife Ryan-Christensen

"I chose the degree in Sociology & social policy because it is highly inter-disciplinary; alongside the core subjects of Sociology and social policy, students are offered a wide range of subject choices within Economics, Political science, Law and languages. I would recommend this course for anyone who is interested in current affairs/ politics, society, and learning about the underlying structures of how countries are run.

The social policy courses range from an overview of Irish social policies in the Freshmen (first two) years, to a wider comparative perspective in the Sophister (final two) years. An important part of the degree is teaching students how to conduct research. This involves modules covering qualitative and quantitative research methods, as well as modules on statistics (SPSS).

The course challenges you to take existing theory and apply it to what you see around you in society and in the world, never failing to remain relevant. The scope of the course enables each student to take a very personal approach to the learning process and to follow their own interests within and across individual subjects – ultimately working towards and shaping their choices for the final year dissertation. Throughout the four years of the degree, the focus is narrowed to allow students to specialise and discover their forte within the fields of Sociology and social policy."

Spanish

COURSE CODES: TR001 (TSM)

PLACES 2013: 41

POINTS 2012: 475-540

DEGREE AWARDED: B.A.

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate HC3 In a language other than English

Advanced GCE (A-Level) Grade C In a language other than English

Spanish (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with Spanish see page 40.

Alternatively, Spanish may be selected as one of the two languages studied in the European studies programme, see page 67. Spanish can be studied ab initio (from beginner level) in both TSM and European Studies.

See also:

TR090: Business studies and Spanish, page 44

Is this the right course for you?

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

Course content

Spanish at Trinity College 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. Students studying Spanish *ab initio* (from beginner level) attend nine hours of classes per week, while non-beginners attend seven hours of classes.

The course covers four main areas:

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

Years two and three

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

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

Starting in the Senior Freshman (second) year and extending into the Junior Sophister (third) 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. Each of these courses in the second and third years are semester-long courses. The format is one lecture followed by one tutorial per week. Students are encouraged to give oral presentations on the texts followed.

The Senior Sophister year

If you elect to study Spanish in the Senior Sophister (fourth) year, you will work more independently and with significant freedom of choice. As well as studying Spanish language, theory of translation and medieval Spanish literature, you will choose two other subjects from a range of special subjects. These include contemporary prose fiction, Spanish and Latin American cultural politics, and a course in the literature of exile. 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

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

Study abroad

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

Career opportunities

The main career opportunities are: teaching, journalism and the visual media generally, while some recent graduates have gained EU placements in Brussels.

A substantial proportion of students engage in further study, particularly diploma and masters' courses in interpreting and translation. Ample opportunities exist in several universities, both in the U.K. and in Ireland, with Trinity College's new M.Phil. in Literary translation and comparative literature proving popular. A steady stream of undergraduates have also chosen to pursue M.Litt. and PhD research degrees at Trinity College.

Further information

www.tcd.ie/Hispanic_Studies/pages/undergraduate.php
Tel: +353 1 896 1257





Engineering, Mathematics and Science



Computer science

- 121 Computer science
- 122 Computer science and business
- 124 Computer science and language
- 126 Management science and information systems studies (MSISS)
- 128 Information systems (non-CAO)

Engineering

- 129 Engineering (common entry), with specialisations in:
 - 132 Biomedical engineering
 - 133 Civil, structural and environmental engineering
 - 135 Computer engineering
 - 136 Electronic engineering
 - 138 Electronic and computer engineering (joint programme)
 - 139 Mechanical and manufacturing engineering
 - 140 Engineering with management

Mathematics and Science

- 143 Science (common entry), with specialisations in:
 - 147 Biochemistry
 - 148 Chemistry
 - 149 Environmental sciences
 - 150 Functional biology
 - 151 Genetics
 - 152 Geography
 - 153 Geology
 - 154 Immunology
 - 155 Microbiology
 - 156 Molecular medicine
 - 157 Neuroscience
 - 158 Physics
 - 158 Physics and astrophysics
 - 160 Physiology
 - 160 Plant sciences
 - 161 Zoology
- 162 Chemistry with molecular modelling
- 163 Earth sciences
- 164 Human genetics
- 166 Mathematics
- 167 Medicinal chemistry
- 169 Nanoscience, physics and chemistry of advanced materials
- 170 Theoretical physics

Computer science

COURSE CODES:	TR033
PLACES 2013:	80
POINTS 2012:	450
DEGREE AWARDED:	B.A. (Moderatorship), Optional: Master in Computer Science (MCS)

Special Entry Requirements:

Leaving Certificate	HC3	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics

See also:

TR032: Computer engineering, page 135; Electronic and computer engineering, page 138

TR034: MSISS, page 126

TR039: Computer science and language, page 124

TR082: Computer science and business, page 122

What is Computer science?

Computer science is a professional subject concerned with the study of everything to do with computers and our relationship with them. The field began with the pioneering theoretical discoveries on logic and calculation in the nineteenth century and continued with the development of early computers in the middle of the last century right up to the present day, where computers have become an integral part of daily life.

Computer scientists are critical to the efficient running of modern societies, dealing with health, security, banking and finance, transportation, and now increasingly our interaction through social networks. Computing professionals, like their counterparts in medicine, law, engineering, accountancy and finance, deal with theoretical issues, solve complex problems, deal with matters of ethics and with society at large. Theoretical issues in computer science relate to the abstract notions of computation and information. The study of these issues leads, for example, to efficient and robust algorithms and to new programming languages. Applications of computer science range from artificial intelligence to health informatics, from computer animation and graphics to information security, and from social network sites to educational and training systems.

Computer science at Trinity is an integrated programme: students study for an honors Bachelor's degree over four years and have the option to study for a fifth year leading to a Master in Computer Science (MCS) degree.

Is this the right course for you?

Computer science at Trinity College is a challenging and exciting course with a focus on innovation and cutting-edge technology that demands the very best from our students. As a Computer science graduate you will be able to apply your deep computer science knowledge along with a range of professional skills in teamwork and management to solve computational problems in all walks of life.

To get the best from the course you need to be interested in developing clear logical ideas about situations and about how to develop feasible schemes ('algorithms') for computers to deal with these situations. You need to be comfortable using mathematical techniques to solve problems.

If you are knowledgeable about computers already, to the extent of building them or writing programs for them, so much the better – but bear in mind, no prior knowledge of computer science is assumed.

Why study Computer science at Trinity College?

The School of Computer Science and Statistics at Trinity is recognised for establishing computer science as an academic discipline in Ireland. Over a period of more than 50 years, the School has earned a strong international reputation and has partnerships in education, research and industry across the globe. The School **collaborates with leading employers** and fosters innovation through its **many successful start-up companies** – including Iona Technologies, Havok, Kore, Swrve, Quaternion Labs, CipherDocs, Haunted Planet Studios, Haptica, GLANTA, Tolerant Networks, Treocht, Cara Health, X Communications Ltd, EmpowerTheUser, Insight Statistical Consulting, Xcelerit, wripl and Emizar. This course is accredited by Engineers Ireland.

Course content

Years 1, 2 & 3

In the first three years of the programme, you will develop key skills in designing and implementing computer programs and systems, solving problems, using mathematics and communicating both orally and in writing. You will learn how to use a range of programming languages and how to tackle large software engineering projects. You will also learn about computer hardware and develop a broad knowledge of other topics, including networks and telecommunications, information management and the relationship between computers and society.

At the end of year 3, you choose to study either for the honors Bachelor's degree (B.A. Moderatorship in Computer science) or the Master in Computer science (MCS).

Final years

If you decide to study for the honors B.A. Moderatorship in Computer science degree over four years, you can choose from a range of advanced subjects to study including: artificial intelligence; computer graphics and animation; computer vision; networked applications; mobile telecommunications; and many others. Topics are reviewed annually to reflect developments in the field of computing.

You will spend the second half of this fourth year working with an academic supervisor on a substantial project in an area of your choice.

If you decide to study for the Master in Computer science degree over five years, you also choose from the range of advanced subjects listed above. The second half of your fourth

year will be spent working on **internship either in Ireland or abroad**. Here you will have opportunities to work on real projects putting into practice the knowledge and skills that you have developed during your studies. Internships have been offered by: Cisco, DemonWare, Microsoft, MasterCard, Murex, Susquehanna International Group, Arris, Intel, Creme, Accenture, Deloitte, Google, First Derivatives, Curam, Havok, IBM, Bloomberg, Symantec, Bank of America Merrill Lynch, Ezetop, Ericsson, Glanta Ltd, SAP, Amazon, Palantir, Corville, Xcelerator, AOL, Fastnet, Learnovate Centre, Incognito, Bearing Point, Swrve and Vistatec.

In your fifth and final year, as well as continuing to study advanced subjects, you will spend the second half of the year working with an academic supervisor on a **substantial research dissertation** in an area of your choice.

On successful completion of the five years, both a B.A. Moderatorship and Master in Computer science will be awarded.

Study abroad

You may apply to spend your third year studying at a university abroad as part of an exchange programme.

Career opportunities

Graduates from this programme are highly sought after and can expect to find employment anywhere in the world. Each year **leading employers in the sector attend a special recruitment fair held at the School of Computer Science and Statistics** which affords students an opportunity to chat informally regarding their career opportunities. **Nine of the top ten ICT companies are located in Ireland and they work closely with the School in sourcing graduates** in the field.

Graduates find employment in almost any sector from communications and entertainment to manufacturing and transportation, government, healthcare, education and many more. Positions can be found within: design, testing, manufacturing, support and implementation, information systems, research and development, operations and management. Many graduates hold senior positions such as CTO and CIO. Others pursue careers in research to PhD and beyond. The School is proud of the entrepreneurial and academic success of its graduates.

Further information

www.scss.tcd.ie/cs

E-mail: undergraduate@scss.tcd.ie

Tel: +353 1 896 1765

Did you know?

- Trinity College Dublin is ranked in the top 100 universities in the world for Computer Science and Information Systems (by the QS World University Rankings 2013).

Computer science and business

COURSE CODES:	TR082
PLACES 2013:	30
POINTS 2012:	465
DEGREE AWARDED:	B.A. Moderatorship in Computer science and business

Special Entry Requirements:

Leaving Certificate	HC3/OA2	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics
	OR	
GCSE	Grade A	Mathematics

See also:

TR017: Law and business, page 93

TR033: Computer science, page 121

TR034: MSISS, page 26

TR039: Computer science and language, page 124

TR081: BESS, page 41

TR085, TR086, TR087, TR089, TR090: Business studies and a language, page 44

Course overview

This joint degree programme aims to provide graduates with the knowledge and expertise needed to work in the technical field of computer science along with the business management skills required to understand the fundamentals of markets, organisations and business management. The course, which is of four years duration, prepares students for challenging careers in computer science and/or business, as well as positioning them for postgraduate study and research in either of these fields.

Over the four years students engage with a range of computer science subjects and a range of business subjects. In order to obtain an adequate grounding in each discipline, students will be required to complete certain mandatory subjects, largely taught in the Freshman (first two) years. The Sophister (third and fourth) years will allow students to choose among various options in computer science and business, although there will still be a minimum requirement for study in each discipline. The organisers will structure the programme, insofar as practicable, in a way that allows students to fulfil some of the requirements for professional accreditation – for example, such as those that exist in accountancy and computer engineering. However, it is expected that further training or examinations will be required to achieve full accreditation.

From a computer science perspective, at the end of the course graduates will be able to design, implement/engineer and evaluate computer-based systems, processes and programs/applications to meet desired objectives and specifications. From a business perspective, at the end of the course graduates will be able to analyse and solve a variety of problems in the private and public sector from a multi-disciplinary knowledge basis of

theories in business. Overall, at the end of the course graduates will be able to apply their knowledge of computer science, mathematics, business and management, along with their problem-solving skills, in new and familiar environments; both within the disciplines of Computer science and Business and in the wider context of the modern workplace.

Is this the right course for you?

This course is unique in that it allows for the study of computer science and business in a contemporary, interesting and relevant manner. The computer science subjects will build upon your problem solving, logical and mathematical skills and challenge you to develop a deep understanding of the science of computers. The business subjects will build upon your knowledge of businesses and your understanding of the role of business in society. Computer science and the networked environment are core issues at the forefront of development in many fields of business, and the combination of computer science and business management is designed to produce graduates who not only understand the latest computer science applications but also have general business management skills including marketing, organisational behaviour, human resources and finance. Government and industry have identified a need for more graduates with computer science and business skills, and this joint honours course helps to meet this demand.

Course content

Junior Freshman Year

In the Junior Freshman (first) year, students take a number of mandatory subjects in business and computer science areas. Students take three mandatory business subjects: Introduction to organisations and management; Introduction to economic policy; and Statistical analysis I.

Students take five mandatory computer science subjects: Mathematics; Introduction to programming (e.g. development of Java applications); Programming project; Introduction to computing; and Business computing systems.

Senior Freshman Year

In the Senior Freshman (second) year, students take a number of mandatory subjects but are offered some choice of subjects in computer science. Students take six mandatory business subjects (half year courses): Organisational behaviour; Principles of marketing; Introduction to accounting; Financial analysis; Introduction to finance; Introduction to operations management.

Students take the following computer science subjects: Programming techniques (algorithms, design patterns etc.); Software engineering programming project and Information management, and a choice of either Systems programming (e.g. development of C/C++ applications) or Systems analysis and design.

Junior Sophister Year

In the Junior Sophister (third) year, students take a combination of subjects, of which one third must be from business, one third from computer science and one third from either. The subject choices are drawn from a list of optional modules as follows:

Business module choices:

Human resource management; Marketing management; Financial and management accounting; Applied finance; Organisational theory; Services & information management; Business in society; Innovation, Entrepreneurship and new venture development.

Computer science module choices:

Applied probability; Symbolic programming; Software engineering; Information management; Software engineering group project; Artificial intelligence; Telecommunications; Compiler design; e-Business; Functional programming; Concurrent systems; Computational mathematics.

Senior Sophister Year

In the Senior Sophister (fourth) year, students take a combination of subjects, of which a quarter must be from business, a quarter from computer science, the computer science final-year project, and the remaining subjects drawn from a list of optional modules as follows:

Business module choices

International business & the global economy; Exploring organisational experience; Financial reporting and analysis; Financial markets and the corporate sector; Advances in marketing theory and practice; Social entrepreneurship & social innovation: Organisation & management; Managing new product development.

Computer science module choices:

Advanced telecommunications; Fuzzy logic; Distributed systems; Human factors; Computer graphics; Computer vision; Advanced compiler design; Artificial intelligence; Strategic information systems.

Please note that not all modules are run each year and that the selection of modules is subject to change.

Assessment

Courses are examined by a combination of continuous assessment and formal examination.

Career opportunities

The B.A. in Computer science and business opens up a wide range of career opportunities as well as further study options. Likely careers for graduates include, but are not limited to, the following: Software developer/Project manager; Chief information officer/IT architecture; Business executive or manager; Consulting (business and/or computer science); Banking/Accounting; Consumer and business to business products and service organisations; Entrepreneur in marketing and Human resources; Operations management; many roles in the public sector.

Why choose the Trinity College School of Business?

See page 43.

Further information

Course website: www.scss.tcd.ie/undergraduate/computer-science-business

School websites: www.tcd.ie/business or www.scss.tcd.ie

E-mail: computerscience-business@scss.tcd.ie



Computer science and language

COURSE CODES:	TR039
PLACES 2013:	15
POINTS 2012:	490
DEGREE AWARDED:	B.A. (Moderatorship)

Special Entry Requirements:

Leaving Certificate	HC3	Mathematics
	HC1	If presenting French or German
	HB3	If presenting Irish
Advanced GCE (A-Level)	Grade C	Mathematics
	Grade C	If presenting French or German
	Grade B	If presenting Irish

Students choose one language from French, German and Irish. Students must present one of the above grades in their chosen language.

See also:

TR032: Computer engineering, page 135; Electronic and computer engineering, page 138

TR033: Computer science, page 121

TR034: MSISS, page 126

TR082: Computer science and business, page 122

What is CSL?

The CSL degree course is one of the most interdisciplinary offered by the University, bridging both science and arts, and its different strands foster a wide range of talents, from analytical problem-solving in computer science and mathematics to analysis of theories and data from linguistics, to fluency and cultural awareness in the language component. In computer science, students learn the underlying fundamentals of computer software and computer-related mathematics. Advanced areas of study include software engineering and artificial intelligence. Linguistics is the scientific study of languages in general. This cognitive science explores the internal properties of languages (constraints on syntax, semantics and sound patterns), the process of human language acquisition, and sociological factors that impinge on language use and languages in contact. The chosen language (French, German or Irish) is studied to degree level, with emphasis on aural, oral and written fluency. **Students who study French or German will spend a year studying at a university abroad** whereas for students studying Irish it is a possibility. Computational linguistics is a discipline that unites the three strands of this course. Students choose third and fourth year projects and options to allow them to shape their major focus within one of the three strands of the degree, or within computational linguistics.

Is this the right course for you?

This course offers a unique combination of skills – technical, mathematical, analytical and communicative. In doing so, it provides two of the most sought after skills today: degree-level fluency in a second language and a degree in computing, opening up hosts of future career possibilities. Many of these careers also involve the third degree-level strand of the course – linguistics. Predictive text in telephones, automatic speech recognition in directory enquiries, and internet search engines are just three examples of technologies that derive from computational linguistics; countless others are on the horizon. The course is appealing to students with strengths in analytical reasoning and an affinity for mastering languages but who do not want to choose between arts and sciences. While the course involves 50% focus on mathematics and computing, 25% on linguistics and 25% on the language, the optional elements allow students considerable flexibility to rebalance their major focus. If you enjoy mathematics, languages and problem solving and are interested in combining topics in creative and insightful ways, then this may be the right course for you.

Course content

In the first two years, half of the programme is devoted to computer science and half to the study of linguistics and your chosen language. Computational linguistics is a theme that unifies the three components. A year abroad is an integral part of the programme, further developing language skills and providing first-hand experience of university life in another country. The year abroad provides additional options that enhance the potential for students to define their own specialist areas within the programme. The final year offers students the opportunity to explore in greater depth areas where computers and language meet or in the classical core of the constituent disciplines: computer science, linguistics and a language. Students complete increasingly complex projects in each year of the programme.

All CSL students also participate in the Dublin Computational Linguistics Research Seminar Series. This weekly seminar is hosted jointly by TCD, UCD, DCU and DIT, rotating annually among these partners. **Seminars vary from industry talks to breaking academic research.** Sometimes these seminars are given by graduates of the programme.

Junior and Senior Freshman (first and second year) modules

	Junior Freshman (1st year)	Senior Freshman (2nd year)
Computer science	<ul style="list-style-type: none"> ■ Mathematics ■ Introduction to programming ■ Representations and computation 	<ul style="list-style-type: none"> ■ Discrete and continuous mathematics ■ Data structures and programming techniques ■ Natural language processing
Linguistics	<ul style="list-style-type: none"> ■ Introduction to the study of language (general linguistics) ■ Introduction to phonetics and phonology ■ Introduction to syntax 	<ul style="list-style-type: none"> ■ Syntactic theory ■ Introduction to speech science ■ Formal semantics ■ Instrumental phonetics ■ Computational morphology ■ Statistics for linguistics
Language	<ul style="list-style-type: none"> ■ Written, oral and aural language fluency ■ Area studies 	<ul style="list-style-type: none"> ■ Written, oral and aural language fluency

The Sophister years

Junior Sophister (third year) students study computer science and linguistics at a university abroad (typically in Belgium, France, Germany or Scotland, depending on the language studied). Subjects studied in the first two years of your degree will be continued in your year of study abroad (through your chosen foreign language). In the Senior Sophister (fourth) year you will take advanced modules in interdisciplinary areas such as artificial intelligence, information systems, computer processing of human language, and the analysis and synthesis of the human voice. You will also proceed to advanced study in your chosen language, perfecting both your oral skills and your written skills in translation and essay writing.

Optional modules 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 module options include computer graphics, databases, fuzzy logic, natural language evolution, and human second-language acquisition.

Assessment

Written examinations, course work and projects are all used in assessment. You will also complete a final-year dissertation as part of the degree.

Career opportunities

Since the course began in 1985, graduates have moved on to careers that reflect the range of topics within the degree. Graduates will be qualified to work as language specialists, information technologists or software specialists in any of the IT, banking, translation, publishing or multi-media sectors. A number work as software engineers in international consulting firms. Some have embarked on careers in professional translation; others have moved into primary and secondary-level education. About 65% of graduates work in software engineering (whether in a mainly English speaking country or in a country where the language of the degree focus is the primary language); about 25% pursue research careers. A number of graduates now hold academic staff positions in Ireland and abroad. Another 10% tend towards a focus in technical translation. Some graduates have taken up employment in government service, e.g. the European Patent Office, the Irish Diplomatic Corps.

Further information

www.scss.tcd.ie/csl
Tel: +353 1 896 1765



Management science and information systems studies (MSISS)

COURSE CODES:	TR034
PLACES 2013:	27
POINTS 2012:	455
DEGREE AWARDED:	B.A. (Moderatorship)

Special Entry Requirements:

Leaving Certificate	HC3	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics

See also:

TR032: Computer engineering, page 135; Electronic and computer engineering, page 138

TR033: Computer science, page 121

TR039: Computer science and language, page 124

TR082: Computer science and business, page 122

TR081: BESS, page 41

What is Management science and information systems studies (MSISS)?

The primary objective of the MSISS programme is to produce graduates who are both business and computer literate and who have a solid understanding of how to approach and solve practical problems using a variety of tools and techniques. The emphasis in MSISS is on building up analytical skills, flexibility and creative thinking.

Students learn how to use techniques from disciplines such as business, mathematics, computer science, statistics and management science to solve real world problems. There is also a firm emphasis on interpersonal skills such as verbal communication, interviewing, teamwork and report writing.

One of the remarkable features of MSISS is the range of careers that graduates take up. The MSISS programme provides students with a unique blend of skills and experience. It is this mix which makes MSISS unique amongst other third level courses in Ireland and helps contribute significantly to the success MSISS graduates have in getting jobs.

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 and are naturally comfortable with mathematics.

The range of subjects studied is wide and will challenge your abilities on several fronts, leading to graduates who have the ability to think about issues in both technical and business terms.

Course overview

MSISS is made up of four strands.

- The first is based around developing skills in quantitative techniques, such as mathematics, statistics, probability, data analytics, 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 strategic information systems.
- The third strand is business-based and covers important concepts in management, finance and operations management.
- The fourth strand seeks to develop a range of personal skills including teamwork, making presentations, interviewing, report writing and researching.

The four strands in MSISS are organised as three main subject areas supported by the interpersonal skills framework. The three subject areas are:

- Business and management
- Quantitative analysis
- Information systems

Interpersonal skills such as interviewing and making presentations are taught explicitly and implicitly (i.e. built into the teaching of other subjects). The Sophister (third and fourth) years provide the opportunity to specialise in an area of your choice.

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
- Economics

Quantitative analysis:

- Forecasting
- Management science (operations research)
- Data analytics
- Market research
- Mathematics
- Probability
- Statistics

Information systems:

- Information systems and technology
- Programming (Java, Visual Basic SQL and PHP)
- Strategic information systems
- End user computing

Personal skills:

- Making presentations
- Interviewing
- Report writing
- Research methods
- Team-working
- Consulting

The Freshman years

During the Junior and Senior Freshman (first two) years, you will get a solid introduction to a number of fields. Subjects you will study include:

- Computer programming
- Economics
- Management science
- End-user computing
- Mathematics
- Organisation and management
- Statistics
- Finance and accounting

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 are a number of core courses (five in third year and three in fourth year) and a range of optional subjects from which students select options in each of the final two years.

An integral component of the final year is a project which takes the form of a consultancy project for a real world client. In recent years projects have been undertaken for clients such as Google Ireland, National Lottery, Irish Life, L&P Group, Aon, Electric Ireland, Bank of Ireland and Boylesports.

The choice of optional subjects spans business studies, economics, computer science, statistics, mathematics and engineering. The courses currently offered include financial and management accounting, economics, human resources management, mathematics, marketing management, investment analysis, corporate financial reporting, statistical modelling and production and operations management.

Assessment

You will be assessed by a combination of assignments and end-of-year examination. A report on the final-year project is an important part of the assessment.

Career opportunities

One feature of MSISS is that it provides a base for following a remarkably wide range of careers within management consultancy, the financial services and the actuarial and accounting professions. Many graduates also work in information technology management, quality control, and marketing, while others pursue postgraduate study at home and abroad.

Demand for MSISS graduates has always been steady as the wide ranging skill sets developed in the course of study together with the problem solving and team-working skills are highly sought after by employers. A high level of numeracy and fluency in the use of modern technology are a further attraction for employers.

Further information

Website: www.scss.tcd.ie/courses/bamsiss

E-mail: undergraduate@scss.tcd.ie

Tel: +353 1 896 1765

Did you know?

- A key feature of the Senior Sophister (fourth) year is the project. **You will tackle a real-life, practical problem for a real world client.**
- **MSISS is highly regarded by employers and has one of the best graduate employment records of any undergraduate course in Ireland.** Employers include large financial institutions, management consultants and other businesses both nationally and internationally; for example Deloitte, Ernst and Young, Accenture, McKinsey, KPMG, PwC, BearingPoint, PA Consulting, Distinct Business Consulting, Bank of America Merrill Lynch, CitiBank, CreditSuisse, Barclays, Deutsche Bank, JP Morgan, HSBC, RBS, Bank of Ireland, Ulster Bank, Irish Life, Aviva, Mercer, Paddy Power, First Derivatives, Boylesports, KerryGroup, Betfair, Google, ColgatePalmolive, Proctor and Gamble, United Drug.

Information systems (part-time/evening)

Information systems is the study of how information and communications technologies (ICT) can best be applied – in business, government and society. This programme is delivered by the School of Computer Science and Statistics and comprises two distinct components:

- Diploma in Information systems (2 years)
- B.Sc. (Hons.) in Information systems (2 years)

Diploma in Information systems

Minimum Entry Requirements:

The majority of the students on this course are mature (aged at least twenty-three years on 1 January of year of entry). Mature student applicants are not required to meet the University's minimum entry requirements and therefore do not require Leaving Certificate grades. Assessment is based instead on work experience and other formal and informal qualifications.

If you will be aged less than twenty-three years on 1 January of your year of entry, you must have passed at least six subjects in the Leaving Certificate (or equivalent), with at least a grade C3 at ordinary level in English and Mathematics.

For all candidates: relevant work experience will be taken into consideration, but experience is not essential in order to apply.

Application Procedure:

This is not a CAO course. Students are required to apply directly to Trinity College using the online application form. Completed applications must be submitted by 30 June 2014 for entry to the academic year 2014/15.

Late applications will be considered subject to availability.

Details of how to apply are available at: www.scss.tcd.ie/IS

Ireland needs skilled ICT professionals with broad capabilities, including well-developed business and communication skills and up-to-date technical expertise. If you wish to embark on a career as an ICT professional, or advance your existing ICT career, this two-year diploma course is for you. You will gain in-demand skills that you can apply in a range of ICT roles in business, industry and government, such as system architecture, design and development, software engineering, support, technical sales, IT and project management, security and quality assurance.

The diploma runs over two years, with lectures normally delivered on three evenings per week. On completion of the course you will:

- Be able to construct appropriate ICT solutions using a range of technologies, including social, mobile and cloud computing.
- Develop business, communication and ICT skills through practical assignments and project work.
- Understand the principles, methods, tools and architectures used in the development and management of ICT.
- Be aware of pressing current issues concerning the use of ICT in business and government and the increasing impact of ICT on society.

Recipients of the Diploma award can continue their studies to degree level which takes a further two years – see B.Sc. (Hons) in Information Systems.

B.Sc. Degree in Information systems

Entry Requirements:

Students who successfully complete the Diploma in Information systems may apply for entry to the two-year honors evening degree course. Holders of other qualifications at a sufficiently high level and deemed to be equivalent to the Diploma in Information systems may also apply for entry to the degree course.

For all candidates: relevant work experience will be taken into consideration, but experience is not essential in order to apply.

Application Procedure:

This is not a CAO course. Students are required to apply directly to Trinity College using the online application form. Completed applications must be submitted by 30 June 2014 for entry to the academic year 2014/15.

Late applications will be considered subject to availability.

Details of how to apply are available at www.scss.tcd.ie/IS

If you wish to work in ICT or advance your career as a senior professional or manager in ICT, this flexible two-year honors degree course is for you. You will be equipped to engage in demanding roles in all sectors of the IT industry, in business and in government. Our graduates include system architects, project managers, developers, software engineers, and specialists in support, quality assurance and other areas of ICT.

The B.Sc. Degree in Information systems course includes technologies, techniques and methods drawn from research and internationally-accepted best practice. The course offers two major streams, in Information systems and Computer science. You may choose from a range of elective modules. On completion of the course you will:

- Be able to develop ICT policies, strategies and architectures.
- Be able to design and implement ICT solutions using a range of technologies, including social, mobile and cloud computing.
- Understand the role, application and potential of ICT in business, industry, government and society.
- Be able to manage ICT operations.
- Have well-developed business, communication and ICT skills.

Further information

www.scss.tcd.ie/IS
E-mail: is-info@scss.tcd.ie
Tel: +353 1 896 1765

Engineering (common entry programme)

COURSE CODES:	TR032	
PLACES 2013:	165	
POINTS 2012:	465	
DEGREE AWARDED:	B.A.I.	
	Optional: M.A.I.	

Special Entry Requirements:

Leaving Certificate	HC3	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics

See also:

TR038: Engineering with management, page 140

What is Engineering?

Engineering is about being creative. Engineers make things possible by using mathematical and scientific principles together with analytical and design skills. They tackle existing problems by developing new solutions through innovative technologies. They also expand the frontiers of society by developing advanced materials, sustainable energy systems, construction technologies, transport systems and telecommunications infrastructure.

Is this the right course for you?

Engineering is a constantly evolving profession. As an engineer, you will need to be adaptable both to the rapid development of new ideas and technology and to the shifting requirements of industry and society. Ideally you will be a good communicator and will also be capable of working as part of a team. Above all, you must be a problem solver. You must be creative and able to synthesise and analyse information from different sources to arrive at efficient and practical solutions.

Course overview

The B.A.I./M.A.I. (Engineering) degree programme is based on two years of general engineering, providing students with a firm grounding in the principles common to all disciplines, followed by two years of specialisation. Graduates are professionally accredited engineers with both a broad-based understanding of the whole discipline and a detailed knowledge of their chosen specialist area. The aim is that graduates will be able to continuously train themselves, to adapt and move into related or newly emerging areas as their careers develop after graduation.

The Freshman years

All students follow a common programme for the first two years. The Junior Freshman (first) year comprises introductory courses in engineering science, mathematics, computer science, physics, chemistry, mechanics, electricity and magnetism, graphics and computer-aided engineering, and a group design and build project.



In the Senior Freshman (second) year, students take further engineering science modules and complete two more group design and build projects. This allows you to explore all the possibilities open to you in advance of making your final decision about what specialism to concentrate on.

While every effort is made to allow students to study the course they choose, the B.A.I./M.A.I. Management Committee reserves the right to allocate the available places. In some departments the number of places for students of any one year may be limited. Timetable difficulties may also reduce the number of options available.

What happens next?

At the end of the Senior Freshman (second) year you choose one of the six specialist areas:

- Biomedical engineering
- Civil, structural and environmental engineering
- Computer engineering
- Electronic engineering
- Electronic and computer engineering (joint programme)
- Mechanical and manufacturing engineering

Courses in the Sophister (third and fourth) years aim to broaden and deepen your knowledge and understanding of the specialism you have chosen to follow to degree level.

Subjects are studied in much greater detail and students undertake real-life, practical projects. If you choose Civil, structural and environmental engineering you could end up testing the pre-cast concrete used to build the Paddington to Heathrow railway; if you choose Computer engineering, you might find yourself building a microprocessor system.

A substantial design project will be part of your final-year assessment in each discipline.

5th Year Options

Students graduating after 2012 require a Masters degree to be directly eligible for Chartered status. Therefore the School offers several options for a 5th year leading to a Masters degree (M.A.I.).

- **Double qualification with INSA de Lyon**
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, the largest engineering school in France. 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. At the end of a five-year double qualification programme TCD students may receive, in addition to the B.A.I., the Diplôme de l'INSA, which confers full professional accreditation in France.
- **M.A.I. (Domestic – Option 1)**
This entails spending the 4th and 5th year in Trinity College, undertaking additional modules in the specialisation as well as a group project in 4th year and a significant individual project in 5th year.
- **M.A.I. (Domestic – Option 2)**
This option allows student to spend one semester of their 4th year undertaking a **supervised work placement**. The remainder of their 4th year and the 5th year are spent in Trinity College undertaking additional modules in the specialisation. Students complete a significant individual project in 5th year.
- **M.A.I. (International – Option 1)**
This is offered in collaboration with the European CLUSTER Programme, a consortium of 12 universities. The student spends their 4th year abroad and returns to complete their 5th year at TCD. The other partner universities are: Technical University of Catalonia, Barcelona; Technische Universität Darmstadt; Technische Universiteit Eindhoven; Institut polytechnique de Grenoble; Instituto Superior Técnico Lisbon; Katholieke Universiteit Leuven/ Université Catholique de Louvain; Helsinki University of Technology; Karlsruhe Institute of Technology; Ecole Polytechnique Fédérale de Lausanne; Politecnico di Torino; KTH Royal Institute of Technology Stockholm.
- **M.A.I. (International – Option 2)**
This is offered in collaboration with the UNITECH Programme, a consortium of 9 universities and 15 multinational corporate partners. Students will spend one semester in a partner university followed by a **six month internship with one of the corporate partners**.
Partner universities: Chalmers University of Technology, Gothenburg; ETH Zurich; Institut National de Sciences Appliquées de Lyon – INSA; Loughborough University; Politecnico di Milano; RWTH Aachen University; Universitat Politècnica de Catalunya, Barcelona.
- **M.A.I. (International – Option 3)**
The student spends their 4th year abroad as part of the Erasmus/International programme and returns to complete their 5th year at TCD. The other partner universities are: Institut National de Sciences Appliquées de Lyon – INSA; Universidad Politecnica de Madrid (UPM); Politecnico di Torino; University of Melbourne.

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 six specialist streams as outlined below.

Junior Freshman (first) year	Senior Freshman (second) year	Sophister (third & fourth) years and M.A.I. year
Lectures – 16 hours per week Tutorials – 5 hours per week Laboratory work – 6 hours per week	Lectures – 16 hours per week Tutorials – 5 hours per week Laboratory work – 4 hours per week	For contact hours, please go to the individual stream pages (see below).
Junior Freshman modules <ul style="list-style-type: none"> ■ Engineering mathematics I and II ■ Computer engineering I ■ Physics ■ Chemistry ■ Electrical engineering ■ Mechanics ■ Introduction to professional engineering ■ Engineering design I: Graphics and computer-aided engineering ■ Engineering design II: Project ■ Experimental methods 	Senior Freshman modules <ul style="list-style-type: none"> ■ Engineering mathematics III and IV ■ Computer engineering II ■ Solids and structures ■ Thermo-fluids ■ Electronics ■ Engineering and the Environment ■ Materials ■ Engineering design III: Project ■ Engineering design IV: Project 	Sophister modules <ul style="list-style-type: none"> ■ Engineering mathematics V or Engineering analysis ■ Management for engineers <p>Select one of the six specialisations below:</p> <p>Biomedical engineering, page 132</p> <p>Civil, structural and environmental engineering, page 133</p> <p>Computer engineering, page 135</p> <p>Electronic engineering, page 136</p> <p>Electronic and computer engineering (joint programme), page 138</p> <p>Mechanical and manufacturing engineering, page 139</p>

Assessment

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

Study abroad and work experience

You can spend your fourth year studying abroad or **a term working in industry**. There are opportunities to study abroad through the Erasmus, Cluster and Unitech exchange programmes. The School links with many universities across Europe.



Career opportunities


The B.A.I. is a professional degree accredited by Engineers Ireland and is recognised by a large number of engineering institutions outside Ireland. It will be your gateway to a wide and varying career path. See the specialist areas below for further details of career opportunities.

Further information

www.tcd.ie/Engineering

Tel: + 353 1 896 1142

E-mail: engineering@tcd.ie

 www.facebook.com/TrinityEngineering

 Twitter [@tcdengineering](https://twitter.com/tcdengineering)



Biomedical engineering

Students who wish to study Biomedical engineering apply to the Engineering degree (TR032). The first two years are common to all Engineering students and at the end of the second year students select Biomedical engineering as their specialist area.

See page 129 for details of the Freshman (first two) years.

What is Biomedical engineering?

Biomedical engineering is the application of engineering principles to study how the human body works and to design medical devices and diagnostic equipment. Biomedical engineers are found working in companies making medical devices such as cardiac pacemakers, stents, MRI scanners and aids for people with disabilities. They also work in pharmaceutical companies and as clinical engineers in hospitals.

It's a challenging subject which requires a basic knowledge of biology and medicine as well as understanding of a range of engineering topics spanning electronics, computers, mechanics and manufacturing.

It's a very exciting field in which new products are being developed all the time, often using the latest technology in materials, manufacturing techniques and analytical tools.

What will you study?

Course topics include areas of both mechanical and electronic engineering, specialised topics in biomedical engineering and courses in basic medical and biological sciences. Courses include the following:

- **Biomechanics** – principles of statics and dynamics applied to the human body
- **Biomaterials** – materials used in implants, instruments and other medical devices
- **Physiological measurement and data analysis** – collecting and interpreting data from diagnostic instruments
- **Telemedicine** – using computers and telecommunications in a medical context
- **Anatomy and physiology** – how the human body works
- **Cell and molecular biology** – how living cells work
- **Medical device design** – designing new devices for implantation into the body, new instruments or monitoring equipment
- **Tissue engineering** – using the body's own cells to make new tissues
- **Neural signal analysis** – measuring and analysing signals from the brain

In the Junior Sophister (third) year you will study technical courses in both mechanical/manufacturing engineering and electronic engineering, along with a course in Anatomy and physiology. In the Senior Sophister (fourth) year and (optional) Masters (fifth) year you will study a range of technical subjects, most being in specialised areas of biomedical engineering (see above), and a course in Cell and molecular biology.

Project work is an important aspect of this degree and there is an extensive research facility available to students. You will carry out several projects, including a major research project in your final year. Some examples of final-year projects include:

- Nanocomposites for cardiovascular implants
- The biomechanics of rowing
- Design and construction of an improved wheelchair
- Improved diagnosis and treatment of stroke
- Remote ECG monitoring

Study abroad and work experience

You can spend your fourth year studying abroad or a term working in industry. There are opportunities to study abroad through the Erasmus, Cluster and Unitech exchange programmes. The Department links with many universities including Katholieke University of Leuven, Belgium; INSA de Lyon, France; INPG Grenoble; Karlsruhe, Germany and KTH, Sweden.

Career opportunities

Though the biomedical engineering sector worldwide is not as large as some of the major, traditional engineering sectors such as telecommunications and automotive engineering, Ireland has a very strong concentration of medical companies making it a European hub for the manufacture of medical devices and pharmaceuticals. These companies have a strong need for high quality graduates at the Masters and PhD level because of the high technical level of their products.

Biomedical engineers also find employment in hospitals where they work as clinical engineers, responsible for complex, expensive diagnostic equipment and laboratories.

Further information

Course coordinator: Ciaran Simms (csimms@tcd.ie)

www.tcd.ie/bioengineering

Tel: + 353 1 896 4214

E-mail: Trinity Centre for Bioengineering: tcbe@tcd.ie

Civil, structural and environmental engineering

Students who wish to study Civil, structural and environmental engineering apply to the Engineering degree (TR032). The first two years are common to all Engineering students and at the end of the second-year students select Civil, structural and environmental engineering as their specialist area.

See page 129 for details of the Freshman (first two) years.

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 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.

Environmental engineering

Environmental engineers design the systems that provide us with water for all purposes and the systems that deal with waste. Environmental engineers also design ways of producing power from renewable resources and ensure that development happens in a sustainable way.

Structural engineering

Structural engineering is a branch of engineering that might involve designing a building, a bridge, a stadium, etc. Structural engineers have to ensure that a building is safe for the area that it is built in and for the purpose for which it is intended. It must also be economical and have a minimum impact on the environment.

Transportation

The planning and monitoring of our various transport systems, from cycling to high-speed railways, all come under the brief of the transport engineer. Not only does traffic have to be controlled; understanding the decisions that travellers make enables the engineer to influence users to make better choices for the environment and for each other.

What will you study?

Junior Sophister (third year) modules 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 the design and maintenance of 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.
- **Highway engineering** – the design of road infrastructure.
- **Computer-aided design** – the use of computers to create designs.
- **Group design project** – in the past, students have designed a stadium, a cathedral and an opera house.

A significant amount of teaching takes place in the laboratory, and the course involves a lot of project work. Students undertake site visits to civil engineering works and areas of geological interest nationally and there is also a **one-week technical visit to an international location**. Recent trips have included visits to Paris and Barcelona.

In the Senior Sophister (fourth) year you will take nine core civil engineering modules:

- **Management for engineers**
- **Environmental engineering 1** – water quality characteristics, natural processes, process design concepts, wastewater treatment, air pollution.
- **Hydraulics** – flow of water in circular and non-circular conduits, pipe network analysis, pump characteristics.
- **Geotechnical engineering** – soil strength and its determination, slope stability, bearing capacity, earth pressures and retaining walls.
- **Structures 1** – reinforced concrete design, structural steel: introduction to plastic theory, limit state design, rigid, semi-rigid and simple design.
- **Transportation engineering** – transportation engineering, modelling and systems.
- **Materials** – origin, decay, preservation of stone, mortar and block; clay and cementitious brick.
- **Hydrogeology and engineering geology** – groundwater flow; hydrogeological investigations; rock mechanics, including slope and tunnel stability.
- **Advanced theory and design of structures** – reinforced concrete, pre-stressed concrete, nonlinear analysis of structures and design of tall buildings.

The Senior Sophister (fourth) year project will be a small group project working on a major infrastructure design with some individual design element to it.

The optional fifth year will allow students to study toward the Master's degree qualification with a more advanced level of treatment of the topics listed above. There may also be the opportunity to undertake a **placement in industry or with a research group** or to participate in the Unitech or Cluster programmes in your penultimate year.

Fifth year modules include;

- **Research methods** (compulsory).
- **Renewable energy 1** – World energy resources and trends, renewable energy overview, energy conservation, energy from biomass, geothermal and solar energy.
- **Introduction to environmental analysis** – source-pathway-target concepts; legal, political and sociological aspects; ecology; physical, chemical and biological concepts, risk analysis: EIA/EIS.
- **Environmental engineering** – sustainable water and sanitation, air quality and pollution, dispersion, diffusion and fire engineering.
- **Geotechnical engineering 2** – basic geotechnical principles and processes, ground investigation, laboratory and field testing, design correlations, compaction technology, piling and compaction.
- **Transportation engineering** – an introduction to transportation engineering.
- **Transport modelling** – different approaches to modelling transportation networks.
- **Advanced structural analysis** – programming the finite element method, finite difference method and time-stepping dynamic analysis, plus introduction to variational calculus.
- **Advanced concrete technology** – practical use of concrete; properties; new materials, GRP and fibres, processes.
- **Unified theory of structures** – mathematical theory of optimisation, structural analysis, structural optimisation.
- **Renewable energy 2** – wind energy (resources, micro-siting, turbine design, aerodynamics, controls, wind turbine economics, lifecycle cost, grid integration and transmission)/wave energy/tidal energy/hydroelectric.
- **Modelling of civil engineering systems** – analysis of large-scale-real-world civil and environmental engineering systems with special emphasis on quantitative tools.
- **Water quality and hydrological modelling** – aquifer testing, groundwater flow modelling, surface hydrological modelling, wastewater treatment, river and lake quantity models.
- **Waste and environmental management** – solid waste, landfill hydrology, thermal treatment: incineration, pyrolysis, gasification. Contaminated land and groundwater: investigation and remediation; risk analysis.

- **Highway engineering** – road materials, geometric design, highway pavement design, highway economics.
- **Applied transportation analysis** – a course on the background and concepts of intelligent transport systems and its applications at national and international level.
- **Structural dynamics and earthquake engineering** – a course in linear and non-linear dynamics with a particular emphasis on earthquakes (Eurocode 8).
- **Soil structure interaction** – allowable movements, elastic foundations, earth pressures, pile groups, tunnelling, soil reinforcement.
- **Concrete durability and sustainability** – materials, durability, sustainability, case studies.

The fifth year project will be an individual research project.

Study abroad

In their fourth year, students get the chance to study in Europe as part of the Erasmus, Cluster or Unitech programmes.

Career opportunities

In addition to working in the traditional areas of engineering such as construction, design and transport management, civil engineers are often employed in the banking industry, in law firms and in business areas. The numerical and problem-solving skills and expertise that civil engineers have are broad based and make them very attractive employees to many different industries.

Further information

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Computer engineering

Students who wish to study Computer engineering apply to the Engineering degree (TR032). The first two years are common to all Engineering students and at the end of the second-year students select Computer engineering as their specialist area.

See page 129 for details of the Freshman (first two) years.

What is Computer engineering?

Computer engineering is about understanding how computer systems work, and also how they integrate with other systems that surround us. Take for example a modern-day car; a car contains many separate computer systems for controlling such things as the engine timing, the brakes and the air bags. To be able to design and construct such a car, the computer engineer needs a broad theoretical understanding of all these various sub-systems and how they interact. This might involve some mechanical engineering, thermodynamics and fluids as well as the computer systems themselves.

The impact of computer engineering has been more significant and more pervasive than that of many other disciplines. The mobile phone, the Internet and games consoles are all products that were not even imagined 30 years ago, but have now been realised by the ingenuity of computer engineers.

Computer engineers may design computer hardware, write computer programs, integrate the various sub-systems together or do all three. Computer engineers need good management skills and good people skills as they often get quickly promoted to project management positions.

The optional fifth year of the programme will allow students to study toward the M.A.I. Master's degree qualification with more advanced level of treatment of the topics listed above.

Why study Computer engineering in Trinity?

The School of Computer Science and Statistics which runs the Computer engineering programme is the oldest computer science department in Ireland. It consists of more than 60 academics and over 300 postgraduate students. The school was ranked in the top 1% of computer science schools in terms of research impact, while research funding in 2012 exceeded €10 million. Some famous spin-out companies from the school are Iona Technologies, Havok, Demonware and DAFT.

What will you study?

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.
- **Computer networks** – protocols, behaviour and security of computer networks.
- **Operating systems and concurrent systems** – programmes that coordinate, manage and control the allocation of computer resources to other programmes; systems of programmes designed to run alongside one another, in the same processor or in multiple connected processors.

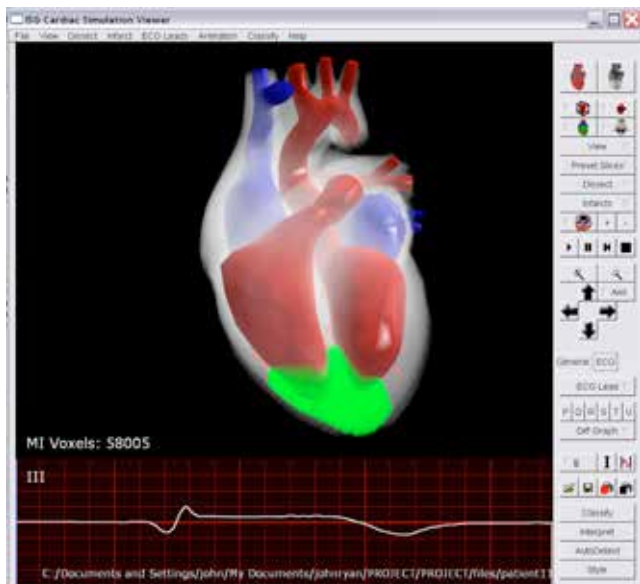
In the fourth year, in addition to a course in engineering management and an engineering project, you will study:

Computer graphics – introduction to computer graphics: modelling, rendering and animation.

- **Computer vision** – image processing, 3D vision, object recognition and tracking with reference to applications in healthcare, multimedia and robotics.
- **Computer architecture** – distributed systems models, file servers, naming, recovery from failure, advanced topics and case studies, and the architecture of high-performance computer systems.
- **Data and knowledge engineering** – file and database management, information structuring and retrieval, knowledge management, design and operation of rule-based systems, expert system applications, heuristic search and case-based reasoning.
- **Sustainable computing** – this course introduces the foundations of sustainability and gives an appreciation for how energy is currently used in ICT and the problems created by the continuous growth of the ICT industry.
- **Augmented reality** – interactive interfaces, 3D vision, design and development of interactive augmented reality games.
- **Security of networks and distributed systems** – understanding of risk as it applies in distributed systems, tools available to control risk, security protocols such as Kerberos, TLS and digital rights management.

Practical work is emphasised throughout the third and fourth years. In the fifth optional year, which leads to an M.A.I. Master's degree, students take a number of elective courses during the first semester. These courses include:

- Fuzzy logic
- Formal methods
- Advanced computer architecture
- Embedded systems
- Distributed systems
- Networked applications
- Artificial intelligence
- Real time animation



During the second semester each student undertakes a final year project that is assessed by a presentation and an end-of-year dissertation. Some examples of project areas include:

- 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

Study abroad

You may choose to spend all of the penultimate year at a European university as part of the Erasmus, Cluster or Unitech programmes.

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, financial institutions, large industrial organisations, research institutions and multinationals in Ireland as well as in Europe, the US and Japan.

Further information

www.scss.tcd.ie/undergraduate/computer-engineering
Tel: +353 1 896 1765

Electronic engineering

Students who wish to study Electronic engineering apply to the Engineering degree (TR032). The first two years are common to all Engineering students and at the end of the second-year students select Electronic engineering as their specialist area.

See page 129 for details of the Freshman (first two) years.

What is Electronic engineering?

Electronic engineering involves the use of electricity to perform a wide range of functions and the application of 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 entities.

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. There are approximately 16 hours of lectures, 4 hours of tutorials, 3 hours of laboratory time and 3 hours of project time per week.

A fourth year electronic engineering student typically has a weekly timetable of 14 hours of lectures, 4 hours of tutorials and 3 to 4 hours of laboratory work. Additionally, you will have laboratory access for individual work on your project.

The optional fifth year of the programme will allow students to study toward the M.A.I. Master's degree qualification with more advanced level of treatment of the topics listed below. **There may also be the opportunity to undertake a placement in industry or with a research group** or to participate in the Unitech, Erasmus or Cluster programmes.

What will you study?

Junior Sophister (third year) courses cover:

- **Core elements of analogue and digital electronics** – the principles of operation of electronic devices and their behaviour when connected to form circuits.
- **Microprocessor systems** – all aspects of the principles, design, construction and characterisation of the hardware and system software of microprocessor-based computers.
- **Signals and systems** – electronic circuits, mathematical methods and algorithms for describing and processing signals such as audio and video.
- **Electromagnetism** – 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.

In the Senior Sophister (fourth) year, in addition to a course in engineering management, you will choose a combination of subjects that allows further specialisation in electronic engineering. Each final-year student also completes a project, either individually or within a group.

Fourth year courses cover:

- Integrated systems design and Digital control systems
- Telecommunications and Digital communications
- Digital signal processing and Digital media processing
- Microelectronic circuits
- Introduction to bioengineering

In the optional fifth year, which leads to an M.A.I. Master's degree, students take a course in research methods and a number of elective courses during the first semester. These courses include:

- Digital media systems
- Speech and audio engineering
- Statistical signal processing
- Wireless networks and communications
- Physiological measurement and data analysis

During the second semester each student undertakes a major individual project that is assessed by a presentation and an end-of-year dissertation. Some examples of project areas include:

- Communications networking
- Electronic circuit design
- Integrated circuit technology
- Electronic and optoelectronic materials
- Sensor-based ad hoc networks
- Microphone array characterisation
- Neural engineering
- Bioinstrumentation
- Digital signal and media processing
- Probability modelling and applications
- Cognitive radio systems

Study abroad

You may choose to spend the penultimate year at a European university as part of the Erasmus, Cluster or Unitech exchange programmes.

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

Department of Electronic and Electrical Engineering

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E-mail: secretary@mee.tcd.ie



Electronic and computer engineering

(joint programme)

Students who wish to study Electronic and computer engineering apply to the Engineering degree (TR032).

The first two years are common to all Engineering students and at the end of the second-year students select the joint programme in Electronic and computer engineering as their specialist area.

See page 129 for details of the Freshman (first two) years.

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 third year you will study four core engineering subjects and seven electronic and computer engineering subjects. There are approximately 16 hours of lectures, 4 hours of tutorials, 3 hours of laboratory time and 3 hours of project time per week.

A fourth year electronic and computer engineering student typically has a weekly timetable consisting of 14 hours of lectures, 4 hours of tutorials and 3 to 4 hours of laboratory work. Additionally, you will have laboratory access for individual work on your project. There may also be the opportunity to undertake **a placement in industry or with a research group** or to participate in the Unitech, Erasmus or Cluster programmes.

The optional fifth year of the programme will allow students to study toward the M.A.I. Master's degree qualification with more advanced level of treatment of the topics listed above.

What will you study?

This degree option blends aspects of both the Electronic engineering (see page 136) and Computer engineering (see page 135) options into one course.

Third year courses cover:

- **Core elements of analogue and digital electronics** – the principles of operation of electronic devices and their behaviour when connected to form circuits.
- **Microprocessor systems** – all aspects of the principles, design, construction and characterisation of the hardware and system software of microprocessor-based computers.

- **Signals and systems** – electronic circuits, mathematical methods and algorithms for describing and processing signals, such as audio and video.
- **Computer networks** – protocols and behaviour of computer networks.
- **Telecommunications** – electronic circuits and networks and the principles of modulation and coding for the transmission of information over guided paths and through free-space.

In the fourth year, in addition to a course in engineering management and an engineering project, you will choose a combination of subjects that allows you to balance your specialisation between the electronic and computer engineering subjects:

Fourth year courses cover:

- Integrated systems design and Digital control systems
- Telecommunications and Digital communications
- Digital signal processing and Digital media processing
- Microelectronic circuits
- Computer architecture
- Data engineering
- Computer graphics
- Computer vision
- Knowledge engineering
- Sustainable computing
- Augmented reality
- Security of networks and distributed systems

In the optional fifth year, which leads to an M.A.I. Master's degree, students take a course in research methods and a number of elective courses during the first semester. These courses include:

- Digital media systems
- Speech and audio engineering
- Statistical signal processing
- Wireless networks and communications
- Physiological measurement and data analysis
- Distributed systems
- Fuzzy logic
- Formal methods
- Advanced computer architecture
- Networked applications
- Artificial intelligence
- Real time animation

During the second semester each student undertakes a major individual project that is assessed by a presentation and an end-of-year dissertation. Some examples of project areas include:

- Communications networking
- Electronic circuit design
- Integrated circuit technology
- Electronic and optoelectronic materials

- Sensor-based ad hoc networks
- Microphone array characterisation
- Vector quantisation of images in pyramidal form
- Design and development of 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

Study abroad

You may choose to spend the penultimate year at a European university as part of the Erasmus, Cluster or Unitech exchange programmes.

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

Tel: +353 1 896 1765

www.scss.tcd.ie/undergraduate/ug-course-list.php

Department of Electronic and Electrical Engineering

Tel: +353 1 896 1580

www.tcd.ie/eleceng/undergraduate

Student profiles: see course description at:
www.tcd.ie/courses



Mechanical and manufacturing engineering

Students who wish to study Mechanical and manufacturing engineering apply to the Engineering degree (TR032). The first two years are common to all Engineering students and at the end of the second-year students select Mechanical and manufacturing engineering as their specialist area. See page 129 for details of the Freshman (first two) years.

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 everyday life – from the car or washing machine to the most complex aircraft or electricity supply plant to the tiniest surgical instrument – have required the skills of a mechanical engineer. Every industrial plant or manufacturing operation relies on a mechanical engineer for its smooth running and efficiency.

Mechanical engineers are involved in design, testing, inspection and manufacture of mechanical devices and components. As a mechanical engineer you will work as a professional using technology to make the world a better, safer place.

What will you study?

Course topics include:

- **Energy** – the study of thermodynamics applied to the creation and use of energy.
- **Solid mechanics** – stresses and deformation experienced by components under service loads.
- **Engineering materials** – the mechanical properties of metals, polymers, ceramics and composites.
- **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** – how components are made and how factories are organised.
- **Dynamics** – the study of moving bodies and machines, including acoustics and vibrations.
- **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; computer-aided design.
- **Bioengineering** – Engineering principles of the human body: design of medical devices and instruments.

In the Junior Sophister (third) year you will study eight technical courses. In the Senior Sophister (fourth) year and optional Masters (fifth) year you will choose from a wide range of technical and non-technical subjects, tailoring your degree to suit your own interests. **You can specialise in areas of the subject such as: bioengineering, energy, aeronautics or manufacturing.**

Project work is an important aspect of this degree and there is an extensive research facility available to students. You will carry out several projects, including a major research project in your final year. 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 energy storage devices for the developing world
- Pedestrian car impact simulation
- Making new body parts by tissue engineering

Study abroad and work experience

You can spend your fourth year studying abroad or a term working in industry. There are opportunities to study abroad through the Erasmus, Cluster and Unitech exchange programmes. The Department links with many universities including Katholieke University of Leuven, Belgium; INSA de Lyon, France; 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

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Engineering with management

COURSE CODES:	TR038
PLACES 2013:	20
POINTS 2012:	435
DEGREE AWARDED:	B.Sc.(Ing) Optional: M.A.I.

Special Entry Requirements:

Leaving Certificate	HC3	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics

See also:

TR032: Engineering, page 129
TR034: MSISS, page 126

What is Engineering with management?

Engineering with management is an exciting and wide-ranging engineering programme that is broad in scope and aims to develop both the technical and business aspects of engineering. Engineers are problem-solvers. They apply their practical and analytical skills to highly complex and varied problems. In almost every human endeavour, an engineer has been involved somewhere. They have created the designs and systems to make everything from:

- gliders to space craft
- ball-point pens to laser printers
- matchbox cars to F1 racing cars
- wheelchairs to artificial joints for the human body
- yachts to the Airbus A380

However, in today's market, a qualification in engineering must also reflect the global commercial outlook of companies. Engineers are in demand because they are seen as people who can contribute greatly to productivity and competitiveness in the world marketplace.

Engineering with management is concerned with the analysis, design, improvement, installation and management of integrated systems of people, finances, materials and equipment. It draws upon specialised knowledge in the principles and methods of engineering analysis and design, together with a number of disciplines such as the management of people, finances, sales, marketing, production, project management and communications.

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 any of these describes you, then you should consider this course. The diversity and flexibility of this course will give you

endless possibilities in your professional life, both in what you do and how you do it. As well as providing the core competencies for employment in research, manufacturing, production, design and engineering consultancy, the breadth of course equips graduates to compete favourably with general graduates for careers in the business and financial sectors.

A key feature of the Engineering with management programme is that the class size is capped at 20 students. This reflects a core belief in the value of **small-group teaching** and hands-on exercises, and delivered through active learning strategies implemented by our **world class staff**.

Course overview

The course is a fully accredited professional engineering degree that produces 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, delivered by one of the elite engineering schools in the world.

Approximately 80% of the syllabus comprises engineering subjects such as design, automation, computer simulation/modelling, bio-engineering 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.

Students in the Engineering with management programme have the option of completing a 4 year bachelor level degree (B.Sc.) or proceeding (subject to satisfactory performance in their third year) to a 2-year Masters cycle, resulting in a 5 year Masters level degree (M.A.I.).

What will you study?

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

- Engineering fundamentals
- Business & management
- Design
- Manufacturing engineering

Throughout the course, a strong emphasis is placed on group projects, case studies and teamwork.

Five Year Masters in Engineering

The B.Sc. degree programme is based on a 4-year programme comprising both technical engineering subjects and a significant business and management component. Students who achieve a satisfactory academic standard in their 3rd year may proceed to a 2 year Masters cycle, which will lead to the award of an M.A.I. (Masters in Engineering) degree. Those students who choose to graduate after four years with the B.Sc. degree will require additional qualifications (e.g. further/alternative post-graduate study) to be eligible for professional accreditation with Engineers Ireland.

3 principal routes are available:

- The entire 4th year is taken abroad at an approved partner university, after which students return to TCD and complete their studies with an appropriate range of advanced level modules and a substantial **research-based project**.
- An extended period (approximately 6-8 months) in the 4th year is spent at either an approved partner university (e.g. KTH Stockholm, IST Lisbon, UPC Barcelona, EPFL Lausanne, KUL Belgium), or in a **formal industrial placement**, after which students return to TCD and complete their studies with an appropriate range of advanced level modules and a substantial **research-based project**.
- An integrated 2 year cycle based in TCD, comprising an approved combination of project work and lectures.

Assessment

Assessment is by written examination, continuous assessment (laboratory and tutorial assignments) and project work. Some courses, such as design, are assessed completely by continuous assessment.

Career opportunities

Graduates of the programme will have a wide range of skills that will allow them to excel quickly in both the engineering and engineering management fields. Graduates will be suited to jobs in the high-tech sector (e.g. computer, aerospace, pharmaceutical, electronic) as well as traditional manufacturing (e.g. design, fabrication, assembly). They often work as project managers on teams with design and test engineers, managers, financial controllers, marketing and sales people. The qualification is also well suited to those who wish to pursue careers in project management and management consultancy as well as in the broader business and financial sectors.

Graduates will be able to adapt to a wide range of careers and working environments. Career opportunities are extremely broad, but the following list may give some idea of the range of options available. Past graduates are currently working in IBM, Intel, Project Management Group, JP Morgan, Davies Stockbrokers, Wyeth Pharmaceuticals, Denis Woods Forensic Engineers, PWC Accountancy, Accenture, and Reckitt Benckiser.

Further information

www.tcd.ie/mecheng/engman
E-mail: kevin.kelly@tcd.ie
Tel: + 353 1 896 1383

Course content

Engineering with management at a glance

Students in TR038 pursue an accredited engineering degree. Several of the courses are shared with the general engineering (TR032) class, MSISS (TR034) and business students (TR081) but the vast majority are unique to TR038.

Junior Freshman (1st yr):	Senior Freshman (2nd yr):	Junior Sophister (3rd yr):	4th year and (optional) 5th year:
A foundation year that will introduce you to many of the basic concepts in Engineering with management.	Development of themes in Engineering and management introduced in the first year.	Integrates the professional degree in engineering with management science.	Final integration of the professional degrees (B.Sc. or M.A.I.) in engineering with management.
<p>Project Work: Individual and group projects on designing new product concepts and experimental methods. Example: Design, build and test a Roman Mangonel (catapult).</p>	<p>Project Work: Design projects introducing standards in drawing and design using computer-aided engineering software tools. Group and independent research projects in materials. Example: Design, build and test a metal bodied resonator guitar.</p>	<p>Project Work: Individual and group design projects integrating manufacturing, business, and human factors. Example: Redesign of a hand-held power sander.</p>	<p>Project Work: Substantial engineering project emphasising the integration of technical and business solutions. Examples: Control of a self-balancing robot, Injury reduction by implanting multiple stents into a curved artery, Design of an eco-efficient clothes dryer.</p>
<p>Mandatory Subjects: Core engineering fundamentals in Maths, Physics, Chemistry, Computing Introductions to Manufacturing and Management Group Design Project</p>	<p>Mandatory Subjects: Further development of core engineering knowledge in Mathematics, Materials, Electronics, Liquid and solid systems and structures, Energy Theory and practice of Design, Materials and Manufacturing Statistics and finance for management Large group design project</p>	<p>Mandatory Subjects: Theory of machines, Materials and computer methods of problem solving Communications and people management, Information systems Advanced manufacturing and design</p>	<p>Mandatory Subjects: Advanced manufacturing Supply chain management Research methods (5th year only) Major individual project</p>
<p>Optional subjects: None</p>	<p>Optional subjects: None</p>	<p>Optional subjects: Bio-medical options: Anatomy & physiology, Probability, Biomedical design Mechanical options: Robotics, Forecasting, Project management</p>	<p>Optional subjects: An approved combination of: Mechanical and manufacturing: 14 options Bio-medical: 8 options Other engineering: 5 options Business & management: 9 options Design: 5 options</p>
		<p>Work Placement Students are encouraged and assisted in finding suitable vacation work between the 3rd and 4th year.</p>	<p>Work Placement/Study Abroad A range of formal options are available – see section above on ‘Five Year Masters in Engineering’.</p>

Science (common entry programme)

COURSE CODES:	TR071
PLACES 2013:	340
POINTS 2012:	500
DEGREE AWARDED:	B.A.

Special Entry Requirements:

Leaving Certificate	HD3 or OC3	Mathematics
	HC3	In two of: physics, chemistry, biology, mathematics, physics/chemistry, geology, geography, applied mathematics or agricultural science

GCSE	Grade B	Mathematics
Advanced GCE (A-Level)	Grade C	In two of physics, chemistry, biology, mathematics, geology, geography, or applied mathematics

Combinations of subjects not permitted:

Physics/chemistry with physics or chemistry

Agricultural science with biology

Applied mathematics with mathematics

See also:

TR031, 035, 073, 074, 075, 076, 077: pages 162-170

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 College is structured with choice in mind. Courses in the first two years are designed to introduce you to and train you in the fundamental sciences. By the end of the Senior Freshman (second) year you will have moved far beyond the extent of science as it is taught at school and will understand better where your real interests lie. At this point you have the opportunity to focus on one of sixteen specialist areas for your final two years.



Is this the right course for you?

Science at Trinity College leaves plenty of room for flexibility and is ideal if you want to explore the many avenues open to you as a scientist. Even if you already know what you want to specialise in, you will find that employers value the benefits of a broad-based scientific training and background.

Course content

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 typically average 24 class contact hours per week.

TR071 Science at a glance

Junior Freshman (first year)

Students choose subjects from the following to a total of 60 credits. The suggested combinations of subjects are shown in Patterns 1-4, on page 145.

Biology; Chemistry; Geography; Geology; Mathematics; Mathematical methods; Physics; Foundation physics for the life and earth sciences. Students must be aware that their choice of Junior Freshman subjects can affect their choice of moderatorship (3rd and 4th year specialisation), see pages 147-161 for further details.

Mathematics can also be studied as a single honor subject see page 166.

Mathematics (20 credits)

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

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

Biology

Broad-based training in the fundamentals of modern biology.

Topics include:

Biology 1101 (10 credits)

- Introduction to molecular and cellular biology
- Genetics
- Developmental biology
- Microbiology

Biology 1102 (10 credits)

- Plant and animal biology
- Ecology

Biology 1101 is a prerequisite for Biology 1102

Geography 1021 (10 credits)

- Climate change
- Global atmospheric and oceanic systems
- Global geoecology
- Global geosystems
- Surface processes and landscape development

Geography 1022 (10 credits)

- Conservation
- Environmental degradation
- Environmental hazards

Geology 1101 (10 credits)

Geology topics include:

- Earth in space: Earth as a dynamic physical system
- The living planet: History of life on Earth and interaction of the physical, chemical and biological systems
- A delicate balance: Living with natural hazards and Earth's resources

Mathematical methods (10 credits)

A short foundation course in mathematics and computing for first-year students not taking mathematics as a full subject. This is a less detailed course that will introduce you to the principles and rules governing scientific investigation. Students who take this course may not take one of the physics degree options in 3rd and 4th years.

Topics include:

- Introduction to computing
- Functions, graphs, derivatives, maxima and minima
- Integration
- Matrices, linear equations
- Differential equations

Chemistry

The course provides a general introduction to the fundamentals of modern chemistry, and forms the basis for further studies, both in chemistry and in other sciences.

Chemistry CH1101 (10 credits)

- General and physical chemistry
- Introduction to the fundamentals of chemistry
- The Periodic Table and stoichiometry
- Atomic structure and principles of bonding
- Electrochemistry, acids and bases
- The solid-state, gas laws, thermodynamics, equilibria and kinetics

Chemistry CH1102 (10 credits)

- Introduction to systematic inorganic and organic chemistry
- Aspects of main group and coordination chemistry
- Aliphatic and aromatic functional group chemistry

Chemistry CH1101 is a prerequisite for Chemistry CH1102

Physics (20 credits)

Previous knowledge of physics is not required for this course.

Topics include:

- The physics of motion
- The material world
- Hearing and seeing
- Electromagnetic interactions
- Origins of modern physics
- Exploring the universe

Physics – foundation physics for the life and earth sciences (10 credits)

A foundation course of lectures, practical work and tutorials including the following topics: physics of motion, biomechanics, physics of hearing and seeing, electricity and magnetism and bioelectricity, radioactivity, nuclear physics and related medical applications, heat, pressure and fluids and their biological, geological and medical applications. No previous knowledge of physics is required.

Junior Freshman (1st year) Course Outline

Semester 1	Semester 2
Pattern 1	
Mathematics, Physics and two of the following (one from each semester)	
Chemistry CH1101	Chemistry CH1102
Biology 1101	Biology 1102
Geography 1021	Geology 1101
	Geography 1022
Pattern 2	
Mathematics and four of the following (two from each semester)	
Chemistry CH1101	Foundation physics
Biology 1101	Chemistry CH1102
Geography 1021	Biology 1102
	Geology 1101
	Geography 1022
Pattern 3	
Mathematical methods and five of the following (two from semester 1 and three from semester 2)	
Chemistry CH1101	Foundation physics
Biology 1101	Chemistry CH1102
Geography 1021	Biology 1102
	Geology 1101
	Geography 1022
Pattern 4	
Three from each semester	
Chemistry CH1101	Chemistry CH1102
Biology 1101	Biology 1102
Geography 1021	Geology 1101
	Geography 1022

See next page for outlines of years two, three and four.

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 are available to you in first and second year (see page 14) 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
 E-mail: science@tcd.ie
 Tel: +353 1 896 1970



Senior Freshman (second year)

Students choose three subjects from the following to a total of 60 credits:

Biology; Mathematics; Chemistry; Geography; Physics; Geology

Students must be aware that their choice of Freshman (1st and 2nd year) subjects can affect their choice of specialisation in the 3rd and 4th year (see pages 147-161 for further details)

Mathematics (20 credits)

- MA22S1: Multivariable calculus for science (5 credits)
- MA22S2: Vector calculus for science (5 credits)
- MA22S3: Fourier analysis for science (5 credits)
- MA22S4: Mechanics (5 credits)
- MA22S6: Numerical data analysis techniques (5 credits)

Biology (20 credits)

- BY2201: Cell structure and function (5 credits)
- BY2202: Vertebrate form and function (5 credits)
- BY2203: Metabolism (5 credits)
- BY2204: Evolution (5 credits)
- BY2205: Microbiology (5 credits)
- BY2206: Ecosystem biology and global change (5 credits)
- BY2207: Behaviour (5 credits)
- BY2208: Genetics (5 credits)
- BY2209: Infection and immunity (5 credits)
- BY2210: Agriculture, environment and biotechnology (5 credits)

Chemistry (20 credits)

CH2201 (10 credits)

This module will cover topics in:

- Molecular orbital theory
- Coordination chemistry
- Chemical thermodynamics
- Chemical kinetics
- Introduction to organic synthesis

CH2202 (10 credits)

This module will cover topics in:

- Main group chemistry
- Nuclear and medicinal inorganic chemistry
- Theoretical and quantum chemistry
- Chemistry of aromatic compounds
- Introduction to organic synthesis
- Organic spectroscopy
- Molecular modelling

Geography (20 credits)

GG2024: Physical geography: Changing environments (10 credits)

This module represents a foundation in modern physical geography and is designed to explain and analyse environmental change during the last 2.6 million years (the Quaternary period).

GG2025: Human geography: Changing worlds (10 credits)

This module introduces students to a number of key issues within contemporary human geography and exposes them to a range of methodological approaches and research techniques. The overarching theme of the module is the way in which historical, cultural, environmental, political and economic geographies are changing under the force of globalisation.

Geology (20 credits)

GL2205: Dynamic Earth 1: rocks and evolution (10 credits)

GL2206: Dynamic Earth 2: structure and microscopy (10 credits)

Physics (20 credits)

PY2P10: Classical physics:

This module combines four elements of classical physics:

- Current electricity
- Oscillations
- Physical optics: introduction
- Thermodynamics

PY2P20: Modern physics

This module combines four elements of modern physics:

- Special relativity
- Quantum physics
- Nuclear physics
- Observing the Universe

Junior and Senior Sophister (third and fourth years)

Select one of:

Biochemistry, page 147

Chemistry, page 148

Environmental sciences, page 149

Functional biology, page 150

Genetics, page 151

Geography, page 152

Geology, page 153

Immunology, page 154

Microbiology, page 155

Molecular medicine, page 156

Neuroscience, page 157

Physics, page 158

Physics and astrophysics, page 158

Physiology, page 160

Plant sciences, page 160

Zoology, page 161

If you need more information on the TR071 Science course outline, please do not hesitate to contact the Science Course Office, +353 1 896 1970 or science@tcd.ie

Biochemistry

Students who wish to study Biochemistry for their degree apply to the Science degree (TR071) and may select Biochemistry as their specialist subject for the 3rd and 4th years.

Junior Freshman (first year) prerequisites: Chemistry CH1101 and Chemistry CH1102. Also, Mathematics or Mathematical methods.

Senior Freshman (second year) prerequisites: Biology BY2201, BY2203, BY2205 and BY2208.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Biochemistry?

Biochemistry is the study of the molecular design of life. It provides an understanding of the structure and function of the building blocks of life (proteins, lipids, DNA and RNA). This subject area is also an integral part of medicine, as it helps us to understand the mechanics of how disease and disorders occur. It is also an essential component of biotechnology, where processes for the production of foods and fuels, and enzymes or other proteins are developed. Knowledge of the structure of proteins implicated in human disease is also useful for the design of new drugs. All major pharmaceutical companies have significant investment in biochemistry to help aid their pipeline of new drugs and therapies for cancer, infectious diseases, and other pathological conditions.

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 cells to the complex development and organisation of the human being.

Topics include:

- Protein science
- Membrane biology
- Cellular regulation
- Immunology
- Eukaryotic gene structure

A **research project** in the area of biochemistry forms an essential part of the Senior Sophister (fourth) year. Examples of research areas from which projects may be chosen include drug design and development, cancer, neurobiology, parasitology, immunology, metabolism and cell signalling. **The School of Biochemistry and Immunology also has the best facilities in Ireland for studying the 3D structure of the molecules of life.**

Study abroad

The School participates in an Erasmus scheme which offers the opportunity for students to spend their third year studying in a university in the United Kingdom, France or Germany.

Career opportunities

This course equips you to work in all major aspects of biochemistry, cell biology and molecular biology. You may decide to continue your studies at the postgraduate level and subsequently take up a career in industrial, medical or academic research. Alternatively, you will be qualified to work in hospitals and commercial laboratories dealing with biotechnology, food science, pharmaceuticals or diagnostics. Biochemistry graduates benefit from their training in terms of critical thinking, analytical reasoning and presentation and communication skills. Consequently, our recent graduates are in high demand in careers not directly related to biochemistry such as communications, information systems, teaching and management, accountancy, patent law and merchant banking.

Further information

www.tcd.ie/Biochemistry

Tel: +353 1 896 1608

Student profiles: see course description at:

www.tcd.ie/courses



Chemistry

Students who wish to study Chemistry for their degree apply to the Science degree (TR071) and may select Chemistry as their specialist subject for the 3rd and 4th years.

Junior Freshman (first) year prerequisite: Chemistry CH1101 and Chemistry CH1102 plus Mathematics or Mathematical methods.

Senior Freshman (second year) prerequisite: Chemistry CH2201 and CH2202.

For details of the first two years of the Science course, including entry requirements, see page 143.

Chemistry is also an integral part of the following courses:

TR074: Chemistry with molecular modelling, see page 162.

TR075: Medicinal chemistry, see page 167.

TR076: Nanoscience, physics and chemistry of advanced materials, see page 169.

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. Modern chemistry and chemical technology are vital and are major contributors to modern lifestyle in areas as diverse as food production, health, medicines and communications. Chemists are molecular engineers involved in developing novel target compounds for applications as diverse as pharmaceuticals and drugs, photo- and electro-responsive materials, and polymers and catalysts.

What will you study?

Junior Sophister (third year) modules will cover the three main disciplines:

- **Inorganic chemistry** – organometallic chemistry, catalysis, group theory, bio-inorganic chemistry, spectroscopic methods, identification and characterisation of compounds, inorganic polymers
- **Organic chemistry** – organic synthesis, spectroscopy, stereochemistry, heterocyclic chemistry, reaction mechanisms, amino acid and peptide synthesis
- **Physical chemistry** – macromolecules and interfacial chemistry, spectroscopy, quantum chemistry, kinetics, electrochemistry, thermodynamics, analytical chemistry, chemisorption and catalysis

In addition there are modules on environmental chemistry, computer programming, maths and physics, and you have the option of taking complementary modules from other disciplines.

Lectures are complemented by laboratory experimental classes where you will gain experience in more sophisticated preparative chemical techniques and will also be able to carry out your own spectroscopic analyses and computer-based modelling.

In the Senior Sophister (fourth) year, lectures consist of core fundamental material and an extensive range of optional courses that allow each student to develop her/his own particular interests. The practical component of this year is an extended **research project**, which you will carry out from September to December. **This may**

be conducted in Trinity College or in an academic laboratory abroad. A wide range of projects at the forefront of chemistry are available within the many research areas located in the School.

Study abroad

The School of Chemistry has exchange agreements with a large number of other universities where students carry out their final-year research projects, from September to December. Centres where students have completed their research projects in recent years have included Vienna, Berlin, Bologna, Toulouse and Utrecht in Europe and McGill and Duke Universities in North America. The areas of research cover modern chemical interests such as cancer chemotherapy and DNA chemistry, through device fabrication and materials processing, to homogeneous catalysis and supramolecular chemistry.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

Career opportunities

The chemical and pharmaceutical industries, which contribute some 20% to Ireland's exports, are excellent employers of Trinity College's chemistry graduates. Former graduates of chemistry are working in companies such as Henkel, Pfizer, Glaxo-Smith-Kline and Bristol Meyers Squibb. Patent offices, government advisory and information services, libraries, public analytical laboratories, schools and third-level institutions also employ chemists. Or you may decide to carry out postgraduate research leading to a higher degree either in Trinity College or in another university in Ireland or abroad. Other equally successful routes graduates have taken in the past include careers in the business and financial-services sectors, and in management.

Did you know?

- Trinity College Dublin is ranked in the top 100 universities in the world for Chemistry (by the QS World University Rankings 2013).
- As well as offering a broad choice of topics for study in the traditional areas of chemistry (organic, inorganic and physical chemistry), the School of Chemistry has **research strengths** in the cutting-edge areas of medicinal and biological chemistry, materials and nano-chemistry, and computational chemistry. Students can select a range of lecture courses from topics as diverse as the chemistry of cancer, biological polymers and synthetic materials, metal chelation therapy, catalysis and molecular recognition and synthetic receptors, providing fascinating illustrations of the basic modes of chemical reactivity. These topics are used to review important chemical principles, to gain insight into the history of discovery, and to become acquainted with cutting-edge research that fills the pages of the scientific literature and occasionally enters those of the popular press.

Further information

www.tcd.ie/Chemistry

Tel: +353 1 896 1726 / 2040

Environmental sciences

Students who wish to study Environmental sciences apply directly to the Science degree (TR071) and may select Environmental sciences as their specialist subject for the third and fourth years.

Junior Freshman (first year) prerequisites: Biology 1101 & 1102.

Senior Freshman (second year) prerequisites: 4 of the following: Biology BY2201, BY2202, BY2203, BY2204, BY2205, BY2206, BY2207, BY2208, BY2209, BY2210.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Environmental sciences?

Environmental sciences is by its nature a multidisciplinary research area – a study of the various interactions between the biological, chemical and physical components of our environment. Environmental scientists have training that is similar to other physical or life scientists, but is specifically applied to the environment. A broad scientific knowledge is required which may also involve an understanding of economics, law and the social sciences.

The undergraduate degree course offered by the School of Natural Sciences has been designed to provide for the needs of students with an interest in this rapidly developing academic and professional field. The programme comprises specially designed modules plus suitable modules from contributing disciplines. There should be ample choice within the listed optional modules for a selection which reflects a particular student's interests.

Field work is a core component of the course structure. Students attend field excursions in their Junior Sophister (third) year; students have a **choice of up to three field trips** which they can attend, as well as a mandatory introductory field trip. In addition, optional trips offered by Zoology and Plant sciences allow the possibility of students to attend field courses in Terrestrial ecology, and a Mediterranean field trip.

What will you study?

Teaching is by lecture, seminar, practical laboratory and fieldwork classes in areas such as:

- Environmental governance
- Water technology
- Global environmental change
- Environmental chemistry
- Terrestrial and aquatic pollution
- Conservation and biodiversity
- Geographical information systems



Joint modules with other disciplines include fundamentals of ecology, bioindicators and pollution, wildlife biology, environmental dynamics, coastal processes and management, and environmental impact assessment. In the Senior Sophister (fourth) year you will research and write a thesis on an environmental project. In the past, students have undertaken projects on air pollution, waste management, restoration ecology, water quality, habitat management and greenhouse gas emissions.

Career opportunities

As a graduate in this area you will be able to take advantage of the worldwide demand generated by increasing environmental awareness. Many graduates move straight into environmental consultancy or are working with regulatory authorities and county councils. The course also provides an ideal background for taking a higher degree or pursuing a career in business or industry.

Further information

www.tcd.ie/Botany/undergraduate/environmental-science

Tel: +353 1 896 1274

Functional biology – the comparative physiology of organisms

Students who wish to study Functional biology apply to the Science degree (TR071) and may select Functional biology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: Biology 1101 & 1102, Mathematics or Mathematical methods

Senior Freshman (second year) prerequisites: Biology BY2201, BY2202, BY2203, BY2208.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Functional biology?

Functional biology is the comparative physiology of plants and animals; i.e. comparing the way different kinds of organisms function in the context of their structure (anatomy). Many of the mechanisms organisms use for survival are conserved across species, allowing the revelation of key functional principles. Furthermore, the mechanisms which organisms have evolved depend on their interactions with the environment through time. Finally, Functional biology has important roles to play in elucidating the effects of gene mutations and/or deletions affecting protein function and environmental effects on gene expression.

What will you study?

This course focuses on comparing and contrasting animal and plant physiology. Modules are provided from the disciplines of Plant sciences and Zoology and from the School of Genetics and Microbiology. The Junior Sophister (third) year provides a broad knowledge and understanding of Functional biology, while in the final year a major component of the course is a lab-based **research project** chosen from the disciplines of Plant sciences or Zoology. Final-year teaching also occurs through small-group tutorials in areas of specialisation in plant or animal functional biology as well as through lectures.

Work in the Junior Sophister (third) year provides a broad overview of functional biology and includes core modules in:

- Tutorials: Current issues in functional biology
- Genetics for functional biology: Neurogenetics, gene expression, plant molecular genetics I
- Plant physiology
- Plant structure, anatomy, metabolism
- Plant molecular biology
- Parasitology
- Comparative physiology
- Developmental biology
- Experimental design and analysis
- Broad curriculum (see page 14)



A major component of the Senior Sophister (fourth) year is the research project. Tutorials in specialist areas of functional biology are also selected as well as taught modules:

- Research project
- Genetics for Functional biology: developmental genetics of drosophila, genetics of neural development, plant developmental genetics, plant molecular genetics II
- Extended essay: Functional biology and society
- Tutorials in zoology: developmental biology, evolution, biomedical parasitology, eyes and vision
- Tutorials in plant science: plant molecular biology, plant physiology
- Environmental physiology
- Data handling

Career opportunities

Functional biology acts as the perfect springboard for undergraduate students to go on to post-graduate bioscience degrees; e.g. Masters and PhDs in biological/physiological disciplines. Graduates of Functional biology are also ideally placed to contribute to the knowledge economy/society through careers with biotechnology companies and/or industry, having gained unique and valuable experience and training. The course also provides an excellent background for students who want to pursue a career in teaching biology.

Further information

www.naturalscience.tcd.ie/undergraduate/functional-biology.php

Tel: +353 1 896 1366

Genetics

Students who wish to study Genetics apply to the Science degree (TR071) and may select Genetics as their specialist area for the 3rd and 4th years.

Junior Freshman (first year) prerequisites: Chemistry CH1101, Chemistry CH1102, Biology 1101 and Mathematics or Mathematical methods.

Senior Freshman (second year) prerequisites: Biology BY2201, BY2203, BY2205 and BY2208.

For details of the first two years of the Science course, including entry requirements, see page 143.

Alternatively, to study human genetics exclusively, students should apply to course TR073 – Human genetics see page 164.

What is Genetics?

Genetics encompasses both the science of heredity – how phenotypic traits are inherited – and the modern field of molecular biology, which has figured out what genes are and how they work. Genetics provides an approach to studying everything from how cells work to the physiology and behaviour of organisms and the evolution of species. 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. Subjects are taught through a combination of lectures, tutorials and practical courses.

- **Medical genetics:** includes the identification of genes causing various clinical disorders and the development of genetic and stem-cell therapies to treat them.
- **Neurogenetics:** studies how genes control the development and function of the nervous system and their influences on behaviour and psychiatric disease.
- **Molecular and cell biology:** explores the control of gene expression and function of genes in various cellular processes in animal or human cells and bacteria, such as cell death, proliferation or differentiation.
- **Developmental genetics:** investigates how genes in different cells control the development and growth of an organism.
- **Bioinformatics and evolutionary genetics:** investigates evolutionary relationships between organisms and the processes that drive evolution.
- **Population genetics:** deals with genetic variation in populations and the role of this variation in evolution.
- **Plant genetics:** studies the genes that control plant development and physiology.

In the Senior Sophister (fourth) year, you will be able to specialise in areas of particular interest, and will carry out an original research project in an area such as: hereditary blindness, cell death, neural development, bacterial stress responses or plant genetics. Specialist lecture courses include cancer genetics, genetics of vision, behavioural genetics and human evolutionary genetics.

Did you know?

- Genetics is housed in the Smurfit Institute of Genetics, with **state-of-the-art research facilities**.
- Ireland was ranked number 1 in Europe in the 2010 national rankings for research in molecular genetics and genomics (source: Thomson Scientific Essential Science indicators), ahead of countries such as the UK and Germany. This ranking is based on the high numbers of citations received by research papers in genetics published from Ireland, primarily by scientists at the Smurfit Institute of Genetics – the only dedicated genetics research institute in Ireland. The institute has an outstanding reputation for producing high-quality research and holds two of Ireland's three European Research Council Advanced Grants in biology – the most prestigious research awards in Europe.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

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.

Career opportunities

Graduates have gone on to careers in diverse fields, many in science or areas related to it. Many genetics graduates go on to careers in academic or industrial research beginning with postgraduate study. Opportunities also exist in biotechnology and pharmaceutical companies, agricultural organisations, medical or clinical diagnostic laboratories, forensics, genetic counselling, public health and epidemiology programmes, and in teaching. Other graduates have gone on to careers such as medicine, patent law or science journalism. Even if you choose a career not directly related to the scientific subject, the skills of critical thinking and problem solving provided by the Genetics degree will put you in high demand.

Further information

www.tcd.ie/Genetics

Tel: +353 1 896 1140

Student profiles: see course description at:

www.tcd.ie/courses

Geography

Students who wish to study Geography apply to the Science degree (TR071) and may select Geography as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisite: Geography 1021 and/or Geography 1022

Senior Freshman (second year) prerequisite: Geography GG2024 and GG2025.

For details of the first two years of the Science course, including entry requirements, see page 143.

Alternatively, Geography may be combined with one other subject from an arts or social science discipline within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with Geography, see page 40.

See also:

TR029: Political science and geography, page 105

TR077: Earth sciences, page 163

Why study Geography?

Geography is truly interdisciplinary as it spans a broad spectrum of the social, biological, informational and physical sciences. As the world becomes interconnected geographers are well placed to bring their understanding and skills to bear on social and environmental issues. An important attribute of geographers, and one that is highly regarded in the workplace, is their ability to combine multidisciplinary knowledge with a wide range of transferable skills, including critical thinking, report-writing, numeracy and IT-literacy. These can be applied to careers which directly incorporate a geographic dimension, such as environmental consultancy or urban planning, and to wider areas such as business and public service.

Course content

The Junior Freshman (first year) Geography course aims to provide a solid grounding in physical geography, focusing on materials that are dealt with in greater depth in later years.

Students can take 'Geography 1021' which considers the following themes:

- Climate change
- Global atmospheric and ocean systems
- Global geocology
- Global geosystems
- Surface processes and landscape development

In addition, students may also select to take 'Geography 1022' which introduces key concepts relating to the interactions between humans and their environment by examining case studies from the fields of conservation, environmental degradation and environmental hazards.

In the first year, as students study geography in combination with other subjects, they attend an average of four lectures per module per week. The Senior Freshman (second year) geography modules cover issues relating to cultural, economic and historical geography, and to natural and human-modified environmental processes and systems. Research skills are developed further through a course on collection and analysis of geographical data which includes a fieldwork component.

The Sophister years

There are three compulsory modules (5 credits each) in Junior Sophister (third) year:

- Advanced research methods in geography I
- Advanced research methods in geography II **(which includes an overseas fieldtrip)**
- History and philosophy of geography

There are also additional optional modules (5 credits each) covering a wide range of subjects that include:

- Geographic information: data & tools
- Coastal processes and management I and II
- Globalisation
- Deserts of our solar system
- Environmental governance 1

For their Senior Sophister (fourth) year, students undertake a research dissertation and choose from optional modules that include:

- Climate change
- Human origins
- Globalisation and development
- Historical geography I and II
- Periglacial geomorphology
- Property development, urban planning and the state
- Glacial geomorphology
- Reconstructing environmental change
- Understanding environmental change

Several of the Sophister year options require field and laboratory work. Students may also opt to take a number of courses outside geography in their Sophister years.

Assessment

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

Study abroad

There are opportunities for students to spend all or part of the third year studying abroad at Exeter, Bordeaux, Paris, Utrecht or Stockholm universities.

Did you know?

- Trinity College Dublin is ranked in the world top 100 universities for Geography (by the QS World University Rankings 2013).
- In recent years, Sophister year geography students have been involved in academic staff-led fieldwork in Iceland, Mallorca and Zambia, and in making digital video documentaries as part of their assessed work.

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. Careers taken up by graduating geography students in recent years include urban and regional planning, environmental consultancy and research and teaching as well as positions in such areas as financial services (including insurance), foreign affairs, leisure and tourism and overseas development.

Further information

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



Geology

Students who wish to study Geology apply to the Science degree (TR071) and may select Geology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisite: Geology 1101

Senior Freshman (second year) prerequisite: Geology GL2205, GL2206.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Geology?

Geology is the science of the Earth. It investigates the composition and evolution of this dynamic planet and its living organisms. It embraces the study of such diverse topics as dinosaurs, volcanoes, meteorites and earthquakes. It also deals with the origin and concentration of the materials on which our society is based.

What will you study?

For details of the topics covered in the Junior and Senior Freshman (first and second) years see pages 144-146. Fieldwork is an essential and integral part of Sophister (third and fourth year) geology.

In the Junior Sophister (third) year, a thorough grounding is provided in all major branches of geology. You will learn how each of the rocks contains information on the processes that formed them and the environment in which this took place. You will also study their response to forces in the Earth which cause them to bend, buckle and crack; the measurement of geological time; investigation of the subsurface; and the evolution of life. In addition, you will learn skills in computing and data presentation.

In the Senior Sophister (fourth) year you will take the following compulsory courses:

- Project (**recent projects incorporating fieldwork have been based in various parts of Europe and also in North America**)
- Fieldwork
- Geological literature and seminars
- Petroleum geology and exploration
- Economic geology

You will also select five optional subjects from a wide range covering both academic and applied areas of geology. Optional subjects include:

- Continental tectonics and landscape evolution
- Hydrogeology and groundwater quality
- Global igneous petrology
- Metamorphic petrology
- Planet formation and the early Earth
- Introduction to micropalaeontology
- Palaeobotany, palynology and organic petrology
- Laboratory project
- Radiogenic isotope geochemistry and mass spectrometry

Study abroad

There are opportunities for students to spend part of their Junior Sophister year abroad; we have formal agreements with Uppsala (Sweden) and Clermont-Ferrand (France), but other locations are also possible.

Career opportunities

Recent graduates have found professional career opportunities with mineral exploration companies, civil engineering firms, geological and environmental consultancies, oil companies, organisations based in computing and information systems, and government geological surveys. There is currently a global shortage of geoscientists. Geology graduates are also highly valued in more generalised fields of employment (e.g. in the finance sector) due to their adaptability, their many transferable skills and their experience at dealing with incomplete data sets.

Did you know?

- As a student of geology, you will be trained in hands-on microscopy and undertake several field trips to geologically active areas such as Greece and Spain.

Further information

www.tcd.ie/Geology
Tel: +353 1 896 1074



Immunology

Students who wish to study Immunology apply to the Science degree (TR071) and may select Immunology as their specialist area for the 3rd and 4th years.

Junior Freshman (first year) prerequisites: Chemistry CH1101 and Chemistry CH1102. Also, Mathematics or Mathematical methods. Recommended: Biology 1101
Senior Freshman (second year) prerequisite: Biology BY2201, BY2203, BY2205 and BY2208.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Immunology?

Immunology is one of the fastest and most exciting growth areas of biological science and involves studying the molecules and cells of the body that are involved in recognising and fighting infection and disease. Research in immunology has helped in the development of new vaccines and new therapies for diseases, such as rheumatoid arthritis, multiple sclerosis and Crohn's disease and there is increasing interest in immunotherapies for cancer. **Trinity College has a worldwide reputation for excellence in immunology research and it is a recognised strategic strength of TCD.** As there is also significant interest in immunology from the pharmaceutical sector, **it is anticipated that there will be a high demand for skilled graduates into the future.**

What will you study?

In the Junior Sophister (third) year you will share many of your courses with students of molecular medicine and 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

Additional topics include:

- Protein science
- Gene regulation
- Membrane biology
- Microbiology and virology

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 immunology.



Study abroad

The School participates in an Erasmus scheme which offers the opportunity for students to spend their third year studying in a university in the United Kingdom, France or Germany.

Career opportunities

Given the exciting developments in immunology, graduates of this course will be ideally suited to continue studying at postgraduate level and subsequently take up a career in industrial, medical or academic research. Some graduates will work in hospital and commercial laboratories. Previous graduates have also gone on to study medicine or pharmacy, and even crossed over into areas such as teaching, information systems, accountancy, and management.

Further information

www.tcd.ie/Biochemistry
Tel: +353 1 896 1608

Microbiology

Students who wish to study Microbiology should apply to the Science degree (TR071) and may select Microbiology as their specialist area for the 3rd and 4th years.

Junior Freshman (first year) prerequisites: Chemistry CH1101, Chemistry CH1102, plus Mathematics or Mathematical methods, and Biology 1101.

Senior Freshman (second year) prerequisites: Biology BY2201, BY2203, BY2205 and BY2208.

For full details of the first two years of the Science course, including entry requirements, see page 143.

Microbes and microbiology

Although microbes have been studied for 300 years, mainly in the context of disease, only recently has it been fully realised that microbes are essential for the maintenance of many aspects of life on Earth. This includes recycling all nutrients and minerals, providing oxygen to our atmosphere, fuelling our digestive system and generating essential vitamins and nutrients for our survival. On the other hand, microbes cause a multitude of infectious diseases in humans, animals and plants. Diseases such as AIDS, malaria, cholera, avian influenza, bovine spongiform encephalopathy ('mad cow disease') and antibiotic-resistant *Staphylococcus aureus* (MRSA) infection are all caused by microbes. Despite this, we still know very little about microbes and some estimates suggest that over 95% of the microbial world is yet to be discovered!

Microbiology, as a science, investigates the structures and life processes of micro-organisms (such as bacteria, protozoa, fungi and viruses) together with their activities and effects, beneficial and detrimental, on plants, animals, man and the environment. It also studies the control of these effects and the harnessing of microbial processes for applications in biotechnology. A microbiologist is a versatile scientist and studies microbes at both cellular and molecular levels, using a wide range of techniques, and will also be proficient in microbial biochemistry and genetics.

What will you study during the course?

During the first two years, you will be exposed to a broad range of sciences, facilitating an understanding of how they interrelate, consolidating your fundamental scientific knowledge and allowing you to develop your study skills. Part of this will include microbiological modules within the subject of biology.

In the third year and final year, you will mainly be based in the microbiology section of the School of Genetics and Microbiology in the Moyne Institute of Preventive Medicine, which houses some world-class researchers in medical and molecular microbiology.

In the 3rd and 4th years, you will take a core course covering aspects of microbial molecular and cell biology, microbial pathogenicity and applied microbiology. As some of these topics are closely related to biochemistry, immunology and genetics, you will also take complementary courses from these disciplines.

Extensive laboratory and computer training cover the safe handling of pathogenic micro-organisms, separation of their components and products, genetic analysis, biotechnological techniques and research methods.

In the final year you will also choose from optional courses reviewing the leading edge of research and knowledge in topics such as:

- Gene regulation and expression in bacteria and eukaryotic microbes
- Bacterial cell surfaces and their proteins
- Molecular pathogenesis (disease mechanisms) of bacterial and protozoal infections
- Regulation, issues and standards in current microbiological practice
- Clinical microbiology
- Emerging pathogens

In the final year, you will also undertake a 9-week, full-time project under supervision in a research laboratory. You will work at the cutting-edge of research on topics like genetic transfer between bacteria, design of new anti-malarial drugs, and novel methods for disinfection in hospitals.

Career opportunities

Graduates in microbiology have a wide range of expertise and are considered versatile scientists for industry or pure research. This makes them sought after by pharmaceutical and medical research laboratories as research and quality assurance staff in drug and medical device manufacture, as analytical or R&D staff by the food and beverage industries, by public utilities, the health service, by teaching and training establishments and publishing houses, in life science sales and product development, medical relief organisations and many other areas. Such employment may find you working with multinational or small companies in Ireland or abroad, working with leading-edge biotechnologies in the production of drugs, enzymes, antibiotics, vaccines or agricultural products.

Many graduates go on to do a higher degree in Ireland or abroad and enter a rewarding career in many of the areas mentioned or continue a research career in a university.

Further information

www.tcd.ie/microbiology
Tel: +353 1 8961190

Molecular medicine

Students who wish to study Molecular medicine apply to the Science degree (TR071) and may select Molecular medicine as their specialist area for the 3rd and 4th years.

Junior Freshman (first year) prerequisites: Chemistry CH1101 and Chemistry CH1102. Also, Mathematics or Mathematical methods. Recommended: Biology 1101
Senior Freshman (second year) prerequisites: Biology BY2201, BY2203, BY2205 and BY2208.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Molecular medicine?

Molecular medicine is a joint **degree programme offered by the School of Biochemistry and Immunology and the School of Medicine** and has been inspired by the changing needs of medical research. It is a unique collaboration between the two schools, aimed at creating a science programme with a strong emphasis on translational research, i.e. a theory to therapy approach to learning whereby medical research advances can be directly translated into patient care.

Molecular medicine at Trinity College is the only such degree programme available in Ireland. Students will be given lectures at the cutting-edge of current scientific knowledge within the overarching research themes of cancer, immunology, neuroscience, genetics and microbiology, in addition to clinical lectures given at St. James's Hospital, which will focus on the application of research knowledge to the clinic.

What will you study?

In the Junior Sophister (third) year, the molecular medicine course will provide a broad knowledge and understanding of various fundamental science disciplines, biochemistry, immunology, genetics and microbiology and some topics central to the molecular medicine course as listed below.

Molecular medicine topics include:

- Clinical aspects of cancer and infection
- Stem cells and gene therapy
- Drug development

Science topics include:

- Neuroscience & endocrinology
- Membrane function
- Cellular regulation
- Immunology
- Protein chemistry
- Eukaryotic gene structure

A **research project** in the area of biochemistry, immunology, neuroscience or clinical medicine forms an essential part of the Senior Sophister (fourth) year. Students will have a choice to perform their project in the School of Biochemistry and Immunology, on the main College campus or in the Department of Clinical Medicine, St. James's Hospital. Examples of research areas from which topics may be chosen include the cell cycle and cell division, cytoskeleton, developmental biology, cancer, neurobiology, neurological disease, molecular and cellular parasitology, viral evasion mechanisms, cell signalling, metabolism, the immune system, genetic diseases, and control of cell death. The School also participates in an **Erasmus scheme** which offers the opportunity for students to spend their third year studying in a university in the United Kingdom, France or Germany.

Career opportunities

Graduates of this course will have the ability to work in all major aspects of molecular biology, biochemistry, and cell biology. You may decide to continue your studies at the postgraduate level and subsequently take up a career in medical or academic research. For example, it is possible to continue your studies towards a Masters or PhD in several disciplines in life sciences including the School of Biochemistry and Immunology and the Institute of Molecular Medicine. Alternatively, you will be qualified to work in hospitals and commercial laboratories dealing with biotechnology, food science, pharmaceuticals or diagnostics. Other possibilities include such careers as teaching, information systems, communications and management, law, and banking, where there is a demand for the analytical skills developed in the science and medical disciplines.

Further information

www.tcd.ie/Biochemistry

Tel: +353 1 896 1608



Neuroscience

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

Junior Freshman (first) year prerequisites: Chemistry CH1101, Chemistry CH1102. Also: Mathematics or Mathematical methods. Recommended: Biology 1101.

Senior Freshman (second year) prerequisites: Biology BY2201, BY2202, BY2203 and BY2204.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Neuroscience?

Neuroscience is the discipline concerned with the scientific study of the nervous system in health and disease. It probes the intricate machinery of the nervous system in an attempt to understand how we think, move, perceive, learn and remember. Research in the neurosciences is of considerable importance in medicine, considering the debilitating and costly effects of neurological and psychiatric disease. In this regard, a major goal of modern neuroscience research is to elucidate the underlying causes, and to produce more effective treatments for major brain diseases such as Multiple sclerosis, Alzheimer's disease, Parkinson's disease, schizophrenia and depression.

What will you study?

Neuroscience links neurobiology with cognitive science, and as a result modules are provided by several Schools within several faculties. The course involves in-depth instruction in the fundamentals of modern molecular and cellular biology, as well as on the structure and operation of the nervous system.

Other modules focus on the development of the nervous system, its response to injury and disease, the relationship of the brain to behaviour, imaging the brain, and the drug treatment of brain disorders. You will also be trained in scientific methodology and experimental design, data handling and research skills.

Junior Sophister (third) year courses include:

- Introduction to neuroscience
- Neuroanatomy
- Neurophysiology I
- Neurochemistry I
- Introduction to neurogenetics
- Developmental biology
- Cellular physiology
- Biochemistry and immunology
- General principles of pharmacology
- Applied laboratory techniques
- Research skills

Senior Sophister (fourth) year courses include:

- Neurophysiology II
- Neurochemistry II
- Neuroimmunology, neuroinflammation and experimental neuropathology
- Neuropharmacology
- Neuropsychology
- Neurogenetics
- Scientific literature skills

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 the Trinity College Institute of Neuroscience (www.tcd.ie/neuroscience)**. The research project will be preceded by a literature review, and will lead to a dissertation.

Research projects are currently available in the following research areas: Neurobiology of Alzheimer's disease, Neurobiology of Multiple Sclerosis, Neurotoxicity of MDMA ('Ecstasy') and cannabis, Neurobiology of memory and learning, Neuroinflammation, Neurobiology of Parkinson's disease, Neurobiology of depression, Human sleep research.

Career opportunities

As a graduate of neuroscience you can expect to find employment in organisations that utilise your general scientific training as well as your specialist skills (some recent graduates are now employed by Pfizer, Abbott and Quintiles).

You may also 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 (some recent graduates are now employed by the Trinity College Institute of Neuroscience). If you do not want to pursue a research career, the course provides transferable skills suitable for a wide variety of careers in teaching, business, management and industry. Some graduates also go on to take professional degrees in medicine, speech therapy or allied health-related sciences.

Further information

www.tcd.ie/Neuroscience
Tel: +353 1 896 8484

Physics, Physics and astrophysics

Students who wish to study Physics or Physics and astrophysics apply to the Science degree (TR071) and may select one of these two courses as their specialist subject for the Junior Sophister and Senior Sophister (3rd and 4th) years.

Junior Freshman (first) year prerequisites: Mathematics, Physics.

Senior Freshman (second year) prerequisites: Mathematics, Physics.

For details of the first two years of the Science course, including entry requirements, see page 143.

Physics is also an important part of the following courses: TR035: Theoretical physics, page 170.

TR076: Nanoscience, physics and chemistry of advanced materials, page 169.

Physics

Physics explores our universe in all of its diversity – from particles to planets, from crystals to chaos, from quanta to quasars and from superstrings to superconductors. Its applications are to be found in modern communications, in computers, lasers and many other technologies of vital importance. A physics degree will help you develop flexible skills in theory, data analysis and instrumentation.

Physics at Trinity College 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 College or at another institution **in Ireland or abroad**, and many find this part of the course particularly rewarding. Project topics range from photogalvanic effects in semiconductors, to monitoring of uranium enrichment, to computational analysis of climate models or to the biophysics of proteins.

Studies in physics cover experimental and theoretical training in core subjects, including:

- Mechanics and special relativity
- Electromagnetism
- Quantum mechanics
- Laser and modern optics
- Solid-state physics

You will also take specialist courses in areas such as nanoscience, astrophysics, nuclear and elementary particle physics, superconductivity and computer modelling.

Physics and astrophysics

Since before the dawn of human civilisation man has gazed in wonder at the night sky. The exploration of our solar system and the universe beyond continues to fascinate us. Astrophysics is still a major part of human endeavour in science.

At the end of the Senior Freshman (second) year, you may choose to study for a degree in Physics and astrophysics by substituting roughly one quarter of the general physics courses with astrophysics courses in the final two years.

In the Junior Sophister (third) year the astrophysics courses range over modern astronomical instrumentation, spectroscopy, space plasmas, stellar evolution, galaxies and an introduction to general relativity and modern cosmology. There is hands-on experience of astrophysical observation in the third-year laboratory, using optical and radio telescopes.

In the Senior Sophister (final) year astrophysics lectures provide a more in-depth study of our own solar system, planetary systems around other stars, interstellar matter and galaxies. There is also a focus on modern developments in astronomy, such as dark matter, black holes and supernovae. Senior Sophister students carry out either a physics or an astrophysics research project with the opportunity of working at an observatory in Ireland or abroad.

Study abroad

Final-year students in both Physics and Physics and astrophysics may get the opportunity to carry out their **research project at a laboratory or observatory abroad**. In recent years students have worked at the Belgian Nuclear Research Centre, at the Universities of Potsdam and Regensburg in Germany, at the NASA Goddard Space Flight Center in the United States and at the European Space Agency in Madrid.

Career opportunities

Physics graduates are always 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. There is also 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.

Did you know?

- The School of Physics in Trinity College is the biggest physics department in Ireland (north or south). Over 100 physics graduates from Trinity College and other universities are currently doing research leading to Masters and PhD degrees. Much of this research is in collaboration with research groups in other leading universities and institutes around the world.

Further information

www.physics.tcd.ie
Tel: +353 1 896 1675

Student profiles: see course description at:
www.tcd.ie/courses



Physiology

Students who wish to study Physiology apply to the Science degree (TR071) and may select Physiology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisite: Mathematics or Mathematical methods. Recommended: Biology 1101 and 1102.

Senior Freshman (second year) prerequisites: Biology BY2201, BY2202, BY2203 and BY2208.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Physiology?

Physiology is the study of how cells work, how they co-operate in organs like the heart or brain and how these organs function together in the body as a whole. Because knowing how the body works is essential for understanding how it goes wrong in sickness and disease, physiology is the scientific basis of human and animal medicine.

What will you study?

In the Physiology Department at Trinity College, which is part of the School of Medicine, we focus on human physiology and how it is affected by disease, although a comprehensive understanding of physiology will also involve studying comparisons in other mammalian species. There is a particular emphasis on themes which reflect major research interests in our 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 research skills.

During the second half of the Senior Sophister (fourth) year you will undertake an **individual research project**. This project will be based in Trinity College or in one of its associated hospital departments and will include a literature survey and production of a written dissertation. Some typical recent research projects have looked at the toxic effects of cannabis on brain cells, gastric motility in patients with pancreatitis, respiratory function in lung disease, the cellular mechanisms of memory formation, cardiovascular adaptations in athletes 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. Some graduates undertake further study in health-related fields such as medicine or physiotherapy.

Further information

www.medicine.tcd.ie/physiology
Tel: +353 1 896 2723

Plant sciences

Students who wish to study Plant sciences apply directly to the Science degree (TR071) and may select Plant sciences as their specialist area for the third and fourth years.

Junior Freshman (first year) prerequisites: Biology 1101 & 1102.

Senior Freshman (second year) prerequisites: 4 of the following: Biology BY2201, BY2202, BY2203, BY2204, BY2205, BY2206, BY2207, BY2208, BY2209, BY2010.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Plant sciences?

Plant sciences is the scientific study of plants. These studies are pursued in the field, in the botanic garden and in laboratories. Plants range from the largest forest trees to single-celled algae of fresh and marine waters.

The study of plants is of vital importance; they are the source of the food we eat, the oxygen we breathe, most of the medicines we use, and are core to the understanding of the processes of global climate change. Dealing with the threats from global climate change will be one of the biggest challenges of this century. Human manipulation of plants in the future will need to provide food and energy for an expanding human population whilst conserving the biodiversity of living organisms and integrity of habitats.

What will you study?

Trinity College specialises in the study of the evolution and conservation of all forms of plant life and their response to global climate change impacts.

Courses include:

- Plant biodiversity and conservation
- Ecology
- Plant physiology and global climate change
- Long-term environmental change
- Plant molecular biology
- Pollination biology

The laboratories and greenhouses on Trinity College's campus, the College Botanic Garden and the internationally recognised Herbarium support teaching. **All 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 courses** which take place in Ireland and the Canary Islands (Gran Canaria).

Career opportunities

When you graduate you can move directly into a career related to plant biology, such as nature conservation, environmental consultancy, environmental protection or agricultural research as well as teaching at second-level. Alternatively, you might decide to go on to take a higher degree in Trinity College 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 1 896 1274



3rd year undergraduate students on a recent field trip to Gran Canaria photographed in the Caldera de Bandama.

Zoology

Students who wish to study Zoology apply to the Science degree (TR071) and may select Zoology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: Biology 1101 and 1102, Mathematics or Mathematical methods.

Senior Freshman (second year) prerequisites: Biology BY2201, BY2202, BY2203, BY2208.

For details of the first two years of the Science course, including entry requirements, see page 143.

What is Zoology?

Zoology is the scientific study of the animal kingdom, along with its evolution, diversity and environment. This involves building knowledge of both the structure of different kinds of animals and how they function, and the complex relationships that govern how animals relate to each other and their surroundings. Zoology provides fundamental information on three areas of our society: the environment, food production and human health.

What will you study?

The course highlights the major concerns of modern zoology in relation to environmental and medical biology, and introduces you to cell biological and other analytical techniques, fieldwork and computer-aided data handling procedures.

Work in the Junior Sophister (third) year provides a broad overview of zoology and includes core courses in:

- Ecology
- Physiology
- Animal behaviour
- Biodiversity
- Developmental biology
- Vertebrate form and function
- Parasitology
- Applied molecular biology

There are also additional options selected from the environmental or medical zoology programmes.

A major component of the Senior Sophister (fourth) year is the **research project**. In previous years projects have included parasites in African children, conservation of squirrels, deep sea fisheries and others on biodiversity, climate change and pollution. Tutorials in specialist areas are selected from freshwater biology, marine biology, wildlife biology, evolution and behaviour, molecular biology, developmental biology and parasitology.

Career opportunities

Many graduates are pursuing academic and research careers, in Ireland and overseas. Others have entered the agricultural and fisheries sectors, the wildlife service, and aid agencies, as advisers and technical experts and as inspectors and managers. Trinity College 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 1 896 1366



Chemistry with molecular modelling

COURSE CODES:	TR074
PLACES 2013:	5
POINTS 2012:	490
DEGREE AWARDED:	B.A.

Special Entry Requirements:

Leaving Certificate	HC3	Mathematics
	HC3	In one of physics, chemistry, physics/chemistry or biology
Advanced GCE (A-Level)	Grade C	Mathematics
	Grade C	In one of physics, chemistry or biology

See also:

TR071: Chemistry, page 148

TR075: Medicinal chemistry, page 167

TR076: Nanoscience, physics and chemistry of advanced materials, page 169

What is Molecular modelling?

Molecular modelling is the use of computer modelling to understand and explore chemistry. Advancements in molecular modelling have led to an explosive growth in a range of applications. This course focuses on modelling the structure and reactivity of molecules and solids including:

- The simulation of the structure and properties of materials and nano-materials, including oxides, semiconductors and catalysts
- The modelling of how electrons are arranged in materials and how they behave during chemical reactions
- Modelling organic and bio-organic molecules, including DNA, proteins, drug molecules and computational drug design
- The theory behind different approaches to modelling

Is this the right course for you?

The programme will suit you well if you would like to obtain a chemistry degree but are also interested in learning to use the computational technique of molecular modelling to understand and solve chemical problems in a range of areas such as drug design and materials chemistry.

Course overview

The course is based on the Chemistry degree (see page 148). Core components of the Chemistry degree are taken along with special molecular modelling modules, practical work and project work.

The Freshman years

You will study the same foundation courses in chemistry and mathematics and one of biology or physics as students in the Science course – TR071 (see page 143). However, some of the experimental chemistry laboratory class time is spent in computer laboratories. Special lectures are given to introduce the concepts of molecular modelling and to highlight applications.

The Sophister years

In the third and fourth years you will take core modules in chemistry with additional modules in molecular modelling to include general molecular modelling, quantum mechanics, modelling protein structure, drug design, molecular dynamics, and modelling in solid-state materials chemistry.

In the Junior Sophister (third) year, about half of your laboratory class time will be spent in computer laboratories performing computational experiments using molecular modelling.

As a Senior Sophister (fourth-year) student you will undertake a **computational project**, typically from late September to mid-December. **This may be done in Trinity College or in an academic or research laboratory abroad.**

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

Study abroad

The School of Chemistry has exchange agreements with a large number of other universities where students may carry out their final-year research projects. Centres where students have completed their research projects in recent years include Vienna, Berlin, Madrid, Toulouse and Utrecht in Europe and McGill and Duke universities in North America.

Career opportunities

The degree is fundamentally chemistry-based and so the opportunities available to regular chemistry graduates remain open (see TR071 – Chemistry, page 148). In addition the specially developed computational skills make graduates an attractive prospect for employers both within computing environments and in other professions. Career opportunities range from teaching and research to working in the chemical and pharmaceutical industries, one of the largest and fastest-growing sectors of the Irish economy. Chemists also fits comfortably into management and business. Examples of industries where people are employed directly in scientific computing include: pharmaceutical (computational drug design), chemical (developing catalysts), materials chemistry (semi-conductors/magnetic materials), financial services and meteorology.

Further information

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www.tcd.ie/Chemistry/undergraduate/molecular-modelling

Earth sciences

COURSE CODES: TR077

PLACES 2013: 14

POINTS 2012: 480

DEGREE AWARDED: B.A.

Special Entry Requirements:

Leaving Certificate	HD3 or OC3	Mathematics
	HC3	In two of: physics, chemistry, biology, mathematics, physics/chemistry, geology, geography, applied mathematics or agricultural science
GCSE	Grade B	Mathematics
Advanced GCE (A-Level)	Grade C	In two of physics, chemistry, biology, mathematics, geology, geography or applied mathematics

Combinations of subjects not permitted:

Physics/chemistry with physics or chemistry

Agricultural science with biology

Applied mathematics with mathematics

See also:

TR001: TSM, page 40

TR071: Science, page 143

Earth sciences

This degree programme focuses on Planet Earth, and in particular the composition and structure of the Earth's surface layers, atmosphere and oceans, the dynamic processes that influence and shape our world, and the formation and distribution of resources that we depend upon. Notable areas of study include climate change, geomorphic hazards (earthquakes, landslides, volcanism, flooding), pollution and the availability and exploitation of resources, including energy resources. The degree aims to produce articulate and informed graduates with a broad knowledge of Planet Earth by providing students with a firm grounding in those sciences that relate directly to the surface of the Earth and to surface-forming and atmospheric and oceanic processes. Particular emphasis is placed on the development of critical thinking, a scientific approach to understanding, and training in relevant, transferable skills, including laboratory- and field-based analytical techniques.

Is this the right course for you?

In an increasingly interconnected and complex world, employers are seeking graduates who can combine analytical rigour with an understanding of real-world problems that are not limited to a single discipline. The Earth sciences degree at Trinity College, positioned on the interface between geography,

geology, environmental sciences, physics and chemistry, provides an insight into the complexities of physical processes influencing the inhabited surface of the Earth and its atmosphere and oceans. The degree is both highly challenging and also potentially hugely rewarding: not only do the earth sciences underpin many of the problems currently faced by humankind, they are also a source of many of the solutions!

Course overview

In the Junior Freshman (first) year students take six modules: Geology; Introduction to geography I (physical); Introduction to geography II (human-environment); Maths; Foundation physics, and Introduction to physical chemistry.

In the Senior Freshman (second) year, students take courses in Geology (Mineralogy, Palaeontology and stratigraphy, Petrology, Structural geology and Mapwork, plus a module of Fieldwork); Geography (Changing worlds and Collection and analysis of geographical data); Geochemistry for earth scientists; Physics for earth scientists and a module from the Broad Curriculum (see page 14).

The Sophister (third and fourth) years enable students to take a variety of modules from the existing Geography and Geology degree programmes (see pages 152-153). In their Senior Sophister year, students also have the opportunity to take some modules drawn from outside the Earth sciences degree programme.

Assessment

Most modules are assessed by a combination of continuous assessment and end-of-year examinations.

Study abroad

The School of Natural Sciences has exchange agreements with a large number of other universities where students may carry out part or all of the Junior Sophister (third) year of the degree. In addition, the Earth sciences degree includes at least one **overseas field course, together with opportunities for students to base their research project work outside Ireland.**

Career opportunities

Areas such as environmental consultancy, environmental planning, overseas assistance, the assessment, exploitation and management of resources, including mineral reserves such as oil and gas, risk assessment, environmental analysis, teaching, and research all potentially offer careers for graduates from the Earth sciences degree.

Further information

www.naturalscience.tcd.ie/undergraduate/earth-science.php

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Tel: +353 1 896 1713

Human genetics

COURSE CODES:	TR073
PLACES 2013:	15
POINTS 2012:	560*
DEGREE AWARDED:	B.A.

Leaving Certificate	OC3 or HD3 Mathematics HC3	In two of physics, biology, chemistry, physics/chemistry, mathematics and applied mathematics
GCSE	Grade B	Mathematics
Advanced GCE (A-Level)	Grade C	In two of physics, biology, chemistry, mathematics and applied mathematics

Combinations of subjects not permitted:

Physics/chemistry with physics or chemistry

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.

Students who apply for the general-entry Science course (TR071) have the option of selecting Genetics as their specialist subject for the Sophister (third and fourth) years of the course. See page 151.

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 development of genetic and stem-cell-based therapies for 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 should be prepared to consider this route as one 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 separate tutorials.

In each of the first two years you will take some of the same courses as Science students: biology, chemistry and mathematics in the Junior Freshman (first) year and biology modules BY2201, 2203, 2204, 2205, 2208 and 2209, chemistry and mathematics in the Senior Freshman (second) year – see page 144-146. In addition you will have a weekly genetics tutorial with faculty from the Department.

The Sophister years

In the 3rd and 4th years you will undertake specialised studies in areas such as:

- **Medical genetics:** includes the identification of genes causing various clinical disorders and the development of genetic and stem-cell therapies to treat them
- **Neurogenetics:** studies how genes control development and function of the nervous system and their influences on behaviour and psychiatric disease
- **Molecular and cell biology:** explores the control of gene expression and function of genes in various cellular processes, such as cell death, proliferation or differentiation
- **Computer programming:** provides an essential skill for this field, where large amounts of data must be analysed, and one which is easily transferable to other careers
- **Population genetics and human evolution:** deals with genetic variation in populations and the role of this variation in evolution, especially in humans
- **Cancer genetics and mutation:** studies the mechanisms of mutation and its role in cancer

Subjects are taught through a combination of lectures, tutorials and practical courses.

In the Senior Sophister (fourth) year, you will be able to specialise in areas of particular interest, and will carry out an **original research project** in an area such as: hereditary blindness, cell death, neural development, stem-cell biology, human evolution and psychiatric genetics. Specialist lecture courses include cancer genetics, genetics of vision, behavioural genetics and human evolutionary genetics.

Why study Human genetics at Trinity College?

- Human genetics is housed in the Smurfit Institute of Genetics, with **state-of-the-art research facilities**.
- Ireland was ranked number 1 in Europe in the 2010 national rankings for research in molecular genetics and genomics (source: Thomson Scientific Essential Science indicators), ahead of countries such as the UK and Germany. This ranking is based on the high numbers of citations received by research papers in genetics published from Ireland, primarily by scientists at the Smurfit Institute of Genetics – the only dedicated genetics research institute in Ireland. The institute has an outstanding reputation for producing high-quality research and holds two of Ireland's three European Research Council Advanced Grants in biology – the most prestigious research awards in Europe.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

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.**

Career opportunities

Many Human genetics graduates go on to study for a higher degree or to a career in research, whether in a university, research institute, or in industry. Opportunities exist in biotechnology and pharmaceutical companies, agricultural organisations, medical or clinical diagnostic laboratories, forensics, public health and epidemiology programmes, and in teaching. Genetic counselling is a rapidly expanding field that might also interest you. Other graduates have gone into careers such as medicine, patent law or science journalism. Even if you choose a career not directly related to the scientific subject, the skills of critical thinking and problem solving provided by the Human genetics degree will put you in high demand.

Further information

www.tcd.ie/Genetics

Tel: +353 1 896 1140

Student profiles: see course description at:

www.tcd.ie/courses

Mathematics

COURSE CODES:	TR031	TR001 (TSM)
PLACES 2013:	30	25
POINTS 2012:	535	540-585
DEGREE AWARDED:	B.A.	

TSM points: See page 31

Special Entry Requirements:

Leaving Certificate	HB3	Mathematics
Advanced GCE (A-Level)	Grade B	Mathematics

TR031: Mathematics is studied as a single honor course.
TR001 (TSM): Mathematics must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. An honors degree is awarded in both subjects. For subjects that combine with mathematics see page 40.

Single honor and TSM students follow the same mathematics modules. However, for TSM students the workload is less intense than that of the single honor programme, and TSM students must be more selective.

See also:

TR035: Theoretical physics, page 170

Course overview

The course aims to provide you with a firm foundation in all the basic areas of mathematics and then allow you to specialise in the areas that most suit your interests and talents. Mathematics is an excellent choice for anyone hoping to meet the demand for mathematics graduates in the job market which values numeracy, ability in abstract reasoning and the skill to turn ideas into methods. With an academic staff that brings expertise and experience from many parts of the world, the course aims to be world class, while also catering for those with talents in different mathematical areas.

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. The course has been successful over a long period in providing diverse career opportunities for many students.

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 modules 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 modules in their first semester, and gradually more choice is offered in subsequent semesters until, as a Sophister (third and fourth-year student), you will be able to specialise in the areas that appeal most to you.

The Freshman years

In the Junior Freshman (first) year there are core modules in algebra and analysis, which introduce not only topics that are fundamental to a wide range of mathematics but also a structured way of dealing with mathematical ideas that is absolutely universal to mathematics. They are quite intensive.

In addition, during your first semester you will be introduced to the following topics. In the second semester, you will continue with two of them.

- **Classical mechanics** (this leads on to many of the mathematical modules essential for the Theoretical physics degree)
- **Introduction to statistics** (this opens the way for many subsequent optional modules)
- **Introduction to computer architecture and programming** (this will include practical work)

There are approximately twenty hours of classes per week in the Junior Freshman (first) year.

In the Senior Freshman (second) year you will continue to study algebra and analysis. In addition you will select modules of your choice from a range that includes exploring some of the Junior Freshman topics in greater depth, or you may choose new topics or 'Broad Curriculum' modules (see page 14). 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 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.

An important aspect of the course is an **independent research project** conducted under the supervision of a member of staff.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examination, with all work undertaken during your last two years counting towards your final degree result.

Study abroad

You may choose to spend the Junior Sophister (third) year at a European university as part of the Erasmus exchange programme.

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

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Medicinal chemistry

COURSE CODES: TR075

PLACES 2013: 28

POINTS 2012: 535*

DEGREE AWARDED: B.A.

Special Entry Requirements:

Leaving Certificate	OC3 or HD3	Mathematics
	HC3	In two of: physics, chemistry, biology, mathematics, physics/chemistry, geology, geography, applied mathematics or agricultural science
GCSE	Grade B	Mathematics
Advanced GCE (A-Level)	Grade C	In two of physics, chemistry, biology, mathematics, geology, geography, or applied mathematics

Combinations not permitted:

Physics/chemistry with physics or chemistry

Agricultural science with biology

Applied mathematics with mathematics

See also:

TR071: Chemistry, page 148

TR074: Chemistry with molecular modelling, page 162

TR076: Nanoscience, physics and chemistry of advanced materials, page 169

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, the synthesis of drugs and the understanding of biological functions.

Is this the right course for you?

Yes, if your dream is to design and prepare new drugs, if you want to understand the biological reasons by which they cure diseases, 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.

Did you know?

- Medicinal chemists are the professionals behind the discovery and development of new drugs such as Taxol, which is manufactured by Bristol Myers Squibb in Swords (Co. Dublin) and has saved the lives of many women with breast cancer.

Course overview

This degree provides you with a sound general grounding in chemistry but focuses on, and extends into, topics of relevance to the design and production of new medicinal compounds and understanding their biological actions.

The Freshman years

In the first two years you will follow the Science (TR071) programme, taking chemistry (CH1101 & CH1102), biology (BY1101 & BY1102) and mathematics in the Junior Freshman (first) year. In the Senior Freshman (second) year you will take chemistry and 20 prescribed units of biology with the option of further biology (20 units) or mathematics (20 units) – see pages 144-146. 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 there will be considerable overlap with the Chemistry programme (page 148).

The overlap will be mainly in organic chemistry, with less emphasis being placed on physical 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 modules will include:

- Basic principles of medicinal chemistry
- Biochemistry (protein structure and function)
- Pharmacology (how drugs interact with the body)
- The fundamentals of computational drug design
- Anti-viral and anti-cancer agents
- Anti-microbial and anti-infective agents (compounds that can combat the microorganisms that cause disease)
- Anti-malarial chemistry (study of the development of new drugs in this area)
- Steroid drugs (study of drugs based on the steroid skeleton)
- Industrial chemistry (short course on medicinal chemistry in industry)

In the Senior Sophister (fourth) year, you will cover the medicinal chemistry of the cardiovascular and central nervous systems, combinational chemistry and drug delivery, as well as computational medicinal chemistry and modern analytical methods. Case studies in medicinal chemistry (focusing on specific diseases or drug types) will also feature on your programme.

Practical work in the final year will consist of a **research project**. **This may be carried out either in Trinity College under the supervision of a member of staff, in a chemistry department at an overseas university, or in a commercial laboratory.**



Study abroad

To date, arrangements have been made for students to carry out their final-year research projects, from October to December, in European universities including Regensburg, Madrid, Liverpool, Copenhagen, Montpellier and Bologna. Study further afield in universities in Canada and the USA is also possible.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

Career opportunities

As with graduates in other types of chemistry, the skills acquired during this course will make you highly attractive to employers in a wide variety of areas. In addition to the pharmaceutical industry itself, business, finance, administration and teaching are all possibilities open to you as a graduate of medicinal chemistry. Former graduates of this course are working in companies such as Pfizer, Abbot, GlaxoSmithKline, Servier and Deloitte & Touche.

Medicinal chemistry would also serve as an excellent primary degree for a graduate course in medicine.

Further information

www.tcd.ie/Chemistry/undergraduate/medicinal-chemistry

Course coordinator: **Prof. Mike Southern**
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Nanoscience, physics and chemistry of advanced materials

COURSE CODES:	TR076
PLACES 2013:	15
POINTS 2012:	515*
DEGREE AWARDED:	B.A.

Special Entry Requirements:

Leaving Certificate	OA2 or HC3 HC3	Mathematics In two of physics, chemistry, biology, physics/chemistry, applied mathematics and mathematics
GCSE or	Grade A	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics
Advanced GCE (A-Level)	Grade C	In two of physics, chemistry, biology, mathematics, or applied mathematics

Combinations not permitted:

Physics/chemistry with physics or chemistry
Applied mathematics with mathematics

See also:

TR035: Theoretical physics, page 170
TR071: Science, page 143
TR074: Chemistry with molecular modelling, page 162
TR075: Medicinal chemistry, page 167

What is Nanoscience, physics and chemistry of advanced materials?

The ability to create new technologies or devices would not be possible without advanced materials at the nano-scale. Energy is an important issue for any new device, and making devices smaller approaching the nano-scale can reduce energy cost, while increasing speed. These nanostructures or nanodevices may behave in surprising ways, unlike miniaturised versions of the macroscopic devices. Ultimately this behaviour is explicable by quantum mechanics but new methods of fabricating or interacting with such nanostructures is what nanoscience is all about, ideally to the benefit of both technology and society. Nanoscience incorporates applications in energy, photonics, medical diagnostics, ultra-fast electronics and many other areas that, in addition, use advanced materials. Advanced materials include superconductors, polymers, lasers and optoelectronics, which 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 our futures.

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 and their application to the areas of nanoscience. To understand how to make, develop, control and use advanced materials, nanostructures or nanodevices, it is advisable to have 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 144-146). There will be special tutorials on historical and modern aspects of nanoscience and materials science from **world-leading experts based in the Schools of Physics and Chemistry, and in CRANN** (Centre for Research on Adaptive Nanostructures and Nanodevices) – www.crann.tcd.ie – which is Ireland's research centre for nanoscale materials. In the Senior Freshman (2nd) year there will be special courses on the properties of materials and other aspects of nanoscience.

There are approximately 15 hours of lectures/tutorials and 6 hours of laboratory classes each week.

The Sophister years

In the Sophister (third and fourth) years, 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 semiconductor microelectronic technology.

The practical element of the course will introduce you to a wide range of techniques for the synthesis, preparation and characterisation of modern materials. **Some laboratory training is provided in CRANN using their state-of the art facilities in nanofabrication and nanocharacterisation.**

The Senior Sophister (fourth year) course further explores nanoscience and other 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 (with specific examples of their applications in the nanosciences).

In the final year you will also carry out a research project, frequently abroad in an industrial laboratory, to become familiar with the applications of advanced materials, nanostructures or nanodevices in real-life situations. Many students do their projects in innovative research areas such as nano-technology, and smart and biomimetic materials. Laboratories where projects have taken place include the IMEC micro- and nano-electronics research centre in Leuven, Belgium; The Scripps Research Institute, La Jolla, California; and the University of Potsdam (Universität Potsdam), Germany.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

Study abroad

Many students carry out their final year project abroad, mainly in Belgium, France, Germany, Australia, Canada or the USA. This allows students to develop their practical skills in materials science and to learn about different countries and cultures.

Career opportunities

This degree will provide you with a flexible qualification for employment in cutting-edge high-technology industries, such as the semiconductor, polymer and optical industries. There are also opportunities to carry out postgraduate study in advanced materials, a key research area in Trinity College itself.

Did you know?

- Many graduates from this course go on to do research in the CRANN research centre for nanoscale materials. It is housed in the new Naughton Institute in Trinity College and has state of the art facilities for research into the nanoworld. CRANN was pioneered by the Schools of Physics and Chemistry in Trinity College.

Further information

www.tcd.ie/Advanced_Materials/
Tel: +353 1 896 1675 / 2024



Theoretical physics

COURSE CODES:	TR035
PLACES 2013:	40
POINTS 2012:	540
DEGREE AWARDED:	B.A.

Special Entry Requirements:

Leaving Certificate	HB3	In mathematics and physics
Advanced GCE (A-Level)	Grade B	In mathematics and physics

See also:

TR031: Mathematics, page 166

TR071: Science, page 143

TR076: Nanoscience, physics and chemistry of advanced materials, page 169

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 College 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, including several modules specifically designed with the Theoretical physics programme in mind. In the Freshman (first and second) years students take 40 credits in maths and 20 credits in physics (from a total of 60 credits). In the Sophister (third and fourth) years students take, on average, 30 credits in maths and 30 credits in physics. There are approximately 24 hours of lectures, tutorials and laboratory classes per week.

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.

Assessment

Continuous assessment and end-of-year examinations make up the assessment process.

Career opportunities

Many of our graduates proceed to PhD degrees in leading institutions throughout the world (such as Cambridge University, Harvard, and Imperial College London) in mathematics and experimental physics as well as theoretical physics. Alternatively, a world of possibilities beckons. 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, scientific computing and teaching.

Did you know?

- Trinity College Dublin is ranked in the world's top 100 universities for Mathematics and for Physics (2012 QS rankings).

Further information

www.maths.tcd.ie or www.physics.tcd.ie
Tel: +353 1 896 1949 / 2019

Student profiles: see course description at: www.tcd.ie/courses

	Junior & Senior Freshman (1st & 2nd years)	Junior Sophister (3rd year)	Senior Sophister (4th year)
A total of 60 ECTS credits is to be taken in each year.	40 credits maths, 20 credits physics	30 credits maths, 30 credits physics	25-35 credits maths, 25-35 credits physics (total 60 credits)
Maths	<ul style="list-style-type: none"> Algebra Analysis Mechanics Equations of mathematical physics 	<ul style="list-style-type: none"> Classical field theory and electrodynamics Quantum mechanics Statistical physics 	<ul style="list-style-type: none"> Quantum field theory Differential geometry General relativity Partial differential equations <p>Other mathematical modules and a project option are available each year</p>
Physics The teaching of physics is divided into two modules (each of 10 credits) in each of the Freshman years and 5 credit lecture and 10 credit practical/project modules in the Sophister years	<p>Topics in both classical and modern physics are taken:</p> <p>The physics of motion, Thermal physics, Oscillations and waves, Optics, Materials, Quantum physics, Nuclear physics, Electromagnetic interactions, Special relativity, Chaos and complexity, Astrophysics.</p> <p>There are laboratory classes and group study projects</p>	<ul style="list-style-type: none"> Atomic and nuclear physics Condensed matter physics I Condensed matter physics II Astrophysics I or Computer simulation I There is also a laboratory class, and workshops to develop communication skills 	<ul style="list-style-type: none"> Condensed matter theory Electron and photon physics High energy physics <p>Optional courses are in:</p> <ul style="list-style-type: none"> Nanoscience Advanced topics Interstellar medium and cosmology Computer simulation <p>In addition you will complete a computational physics project. There are also tutorials to develop your physics problem solving ability</p>

Health Sciences



- 54 Clinical speech and language studies
- 173 Dental hygiene
- 174 Dental nursing
- 176 Dental science
- 178 Dental technology
- 179 Human health and disease
- 180 Human nutrition and dietetics
- 182 Medicine
- 184 Midwifery
- 186 Midwifery: Bachelor in midwifery studies (non-CAO)

- 187 Nursing
 - 187 General nursing
 - 187 General nursing (Adelaide)
 - 187 Mental health nursing
 - 187 Intellectual disability nursing
 - 187 Children's and general integrated nursing
 - 190 Bachelor in nursing studies (non-CAO)
- 191 Occupational therapy
- 193 Pharmacy
- 195 Physiotherapy
- 196 Radiation therapy

Dental hygiene (diploma)

COURSE CODES:	TR802
PLACES 2013:	8
POINTS 2012:	435*
AWARD:	Diploma

This is a restricted entry course. Applications must be submitted by 1 February 2014.

Applicants will receive a questionnaire in March to be completed and returned.

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 infectious disease testing.

See Precautions against infectious diseases page 199.

Students will be required to undergo Garda vetting, see page 30 for further details.

What is a Dental hygienist?

The dental hygienist works closely with other dental team members and healthcare professionals. Patients must first be examined by a dentist who will then indicate the treatment to be carried out by the dental hygienist. The dental hygienist focuses on preventative oral care for both children and adults, including those with special needs. Dental hygienists treat patients in the clinical setting to prevent or control periodontal (gum) disease and dental decay. They also engage in oral health promotional activities with individuals, targeted groups and other health care teams, providing advice and counseling in relation to diet and lifestyle habits such as smoking.

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 an empathic personality and good communication skills are important. You need to be a good team player and show initiative to achieve the best for people in your care.

Course overview

This **two-year course** is based in the Dublin Dental University Hospital at Trinity College. It has academic, project-based and clinical components which are carried out in the Dublin Dental

University Hospital, Health Services Executive and general hospital settings. Emphasis is on small-group interactive learning, health promotion projects, evidence-based learning, and clinical practice. You will be integrated with undergraduate dental science students and dental nursing students for some elements of the programme.

Course content

The Diploma in Dental hygiene is a two-year programme. First year students have a fairly full day attending many lectures, seminars and clinical skills training. Most of these are in the Dublin Dental University Hospital, but some are on the Trinity College campus. Some lectures are integrated with the Dental nursing students. Lectures are scheduled throughout the day, including some evening lectures. First year students have three clinics per week.

Second year students have six clinics per week, some of which are based in external clinics. Much time is spent visiting the settings and preparing for oral health presentations in the community. This is a very intensive programme but it is very rewarding when your patients respond to your treatment and advice.

First year modules

- Introduction to applied clinical science
- Introduction to clinical practice
- Clinical practice and health promotion

Second year modules

- Health promotion
- Evidence based practice
- Clinical practice

After qualifying as a dental hygienist you will be able to:

- Describe the role of the dental hygienist and function within a dental team in oral health promotion and the provision of primary health care
- Plan, implement and evaluate oral educational activities for groups and individuals
- Carry out procedures to measure and assess the levels of oral health and oral hygiene
- De-bridge and polish the teeth
- Place fissure sealants
- Apply fluoride-containing preparations and desensitising agents to the teeth
- Recognise abnormalities in the mouth and inform the dentist
- Take dental radiographs
- Administer local anaesthetic for dental hygiene procedures
- Place temporary dressings and re-cement crowns temporarily

Assessment

Assessment is by a combination of written assessments and examinations, objective structured clinical examination (OSCE), a community-based health education project, competence tests in various clinical procedures, completion of various logbooks, clinical credits demonstrating of a reasonable level of patient care, and a final written and clinical examination.

Your degree and professional practice

The Diploma in Dental hygiene conferred by Trinity College Dublin entitles graduates to register immediately after graduation as a dental hygienist on the Register of the Irish Dental Council. This registration is mandatory for working as a dental hygienist in Ireland.

Career opportunities

Most dental hygienists will work in general dental practices or within the public health service. The opportunity exists to teach or become involved in research. The opportunity to work abroad also exists but may require you to sit some local examinations in the country of choice.

Further information

www.dentalhospital.ie (Select the Education link)
 Contact: Lecturer in Dental hygiene:
Catherine Waldron RDH, MSc.
 E-mail: catherine.waldron@dental.tcd.ie
 Tel: +353 1 612 7369



Dental nursing (diploma)

COURSE CODES:	TR801
PLACES 2013:	25
POINTS 2012:	380*
AWARD:	Diploma

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

Students will be required to undergo Garda vetting, see page 30 for further details.

What is a Dental nurse?

The dental nurse plays an important role in the organisation and management of the dental practice, assists the dentist in all aspects of patient treatment and plays a vital role in patient care. The main duties of a dental nurse include: infection prevention and control, chair-side assistance, preparation and maintenance of the dental surgery and patient care.

This course gives you the skills and practical competence needed to work in a dental surgery. You will learn about the day-to-day running of a dental practice and acquire the qualifications for entry to the Dental Council Voluntary Register of Dental Nurses.

Dental nurses are valuable members of the dental team. This is an auxiliary profession, supporting members of the dental team in the delivery of dental treatment.

Skills required of students considering dental nursing include communication and organisation skills, the ability to use initiative, and ability and willingness to work closely with the dental team in providing support and assistance during the provision of dental treatment. The dental nurse may also be involved with the administration of the dental surgery.

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 and be able to communicate effectively. Having a caring and understanding personality is an advantage.

Course overview

This **two-year course** is divided into practical and academic components. Both academic teaching and practical clinical experience are gained at the Dublin Dental University Hospital (DDUH) at Trinity College.

Dental nursing students will attend DDUH from Monday to Friday. Attendance is usually from 8.30am to 5pm, but there will be opportunities to enjoy college life at various times during the week. The first year will be a combination of lectures and clinical practice, which will provide students with a variety of learning opportunities.

In the second year of the programme the students will have the opportunity to work with various dental clinicians in a wide variety of disciplines. **Clinical experiences will be gained within the DDUH environment, external institutions and private practices.**

The programme consists of lectures, tutorials, demonstrations and practical experience. You will be assessed on a continuous basis regarding suitability and application of theory to practice. By the end of the course, you will have developed appropriate skills in patient and team management. You will be integrated with undergraduate dental science, dental hygiene and dental technology students for some elements of the course to ensure effective teamwork throughout the dental profession.

Course content

First year modules

- Microbiology and pathology
- Physiology and medical emergencies; clinical dentistry I
- Anatomy, public oral health and social concepts in dentistry
- Clinical dentistry II and computer skills
- Clinical placements I

Second year modules

- Clinical dentistry III, practice management and health psychology
- Clinical placements II
- Case study

Assessment

Year 1 is assessed by written examinations, practical examinations, continuous clinical assessment and an oral presentation.

Year 2 is assessed by written examinations, objective structured clinical examination (OSCE), a portfolio of clinical experience, case study written report and an oral presentation.



Career opportunities

As a graduate of Dental nursing, you will be able to find work in a variety of working environments including dental hospitals and Health Service Executive dental clinics, as well as in general and specialist dental practices. Depending on the work setting, advancement in the field may include: senior dental nurse, clinic nurse manager, practice manager, marketing representatives for relevant companies, dental nurse tutor, course coordinator, lecturer in dental nursing, and the area of health promotion.

Further information

Please contact the Dental Nurse Tutor

Tel: +353 1 6127238

E-mail: dentalnursetutor@dental.tcd.ie

www.dentalhospital.ie (Select the Education link.)

Dental science

COURSE CODES:	TR052
PLACES 2013:	32
POINTS 2012:	590*
DEGREE AWARDED:	B.Dent.Sc.

Special Entry Requirements:

Leaving Certificate	HB3 + HC3 In two of: physics, chemistry, biology, physics/chemistry or agricultural science. If you do not have a qualification in physics you must present mathematics at OC3/HD3 or better
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Advanced GCE (A-Level)	Grade B + Grade C In two of: physics, chemistry or biology If you do not have a qualification in physics you must present GCSE mathematics at grade B or better
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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 infectious disease testing. See precautions against infectious diseases page 199.

Students will be required to undergo Garda vetting, see page 30 for further details.

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. After qualifying there is no mandatory intern year, unlike medicine, although some graduates undertake vocational training either in Ireland or the UK.

Is this the right course for you?

Yes, if healthcare interests you and if you would like to specifically focus on oral healthcare and its impact on individuals. The nature of dentistry makes it essential that you also have an ability to build a caring and professional relationship with patients, co-workers and the wider community.

You should also enjoy undertaking clinical practice that is physically and mentally demanding as it requires considerable attention to detail with small margins for error. The course is long (five years) and intense as the academic year is much longer than for students of other courses.

Why study at Trinity College?

This course is based in the Dublin Dental University Hospital at Trinity College. The clinical facilities are of a very high standard with emphasis on the use of information technology. The class sizes are small, ensuring that students receive considerable staff input into their progress throughout the programme. The course is very practical throughout with lots of hands-on experience treating patients. Students commence treating their own patients (under supervision) in the second year and by the fifth year are expected to have completed a wide range of treatments similar to those provided in general dental practice. Graduates of the Trinity School of Dental Science and Dublin Dental University Hospital are highly sought after due to the extensive clinical exposure obtained during this programme.

Problem-based learning (PBL)

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. PBL is designed to encourage students to learn subjects such as chemistry, biochemistry and physiology in an integrated manner and in a context that is relevant to the future clinical situations in which the knowledge will be applied. Structured problems are set to meet specified learning objectives and students organise themselves (under supervision) to undertake research to find out how to achieve the learning objectives. PBL also encourages students to engage in self-directed learning and aims to provide graduates with the skills necessary for life-long learning which is a requirement for all health care professionals.

Course content

The course is delivered mainly through small-group tutorials (PBL) that consist of student-led discussions on topics and problems presented and facilitated by staff. These topics tie in with the development of the practical and clinical skills that 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 qualified dental staff from the second year onwards.

First year modules:

Personal and professional development, Human biology I, Physical science.

Second year modules:

Basic dental care, Human biology II, Oral biology and introduction to pathology, Public dental health.

In second year you will develop communication skills with particular reference to patient care, learn how to interpret and explain the clinical signs and symptoms of systemic and oral disease with particular reference to dental practice, and begin to practice the clinical skills necessary for the treatment of patients. Courses in the second year are complemented by knowledge of the relevant elements of the biological and medical sciences appropriate to the needs of a practising dentist.

Clinical training begins in the second year with students learning the vital basic skills of history taking, examination and diagnosis. Approximately half way through the year you will start providing very simple treatments for patients.

Third year modules:

Clinical medical sciences, Fixed and removable prosthodontics, Comprehensive patient care I.

Fourth year modules:

Comprehensive patient care II; Advanced restorative dentistry I; Child dental health; Oral medicine, oral surgery and oral pathology I; Public dental health.

Fifth year modules:

Comprehensive patient care III, Advanced restorative dentistry II, Public and child dental health, Oral medicine, Oral surgery and oral pathology II, Evidence-based dentistry.

During the later years (3-5) 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.

Assessment

In keeping with the PBL-style curriculum, a wide variety of assessment methods are used in all years. There are end-of-term integrated written assessments, practical tests, skills tests of competence, clinical examinations, written reports and oral/verbal presentations. The written assessments include short essays, short answer and multiple choice type questions.

Study abroad

Students in the fourth year can participate in an English-speaking Erasmus exchange programme with dental schools in Norway or Sweden. Between the fourth and fifth dental years, some students undertake voluntary placements in a wide variety of international locations.

Career opportunities

There is a wide range of career options open to qualified dentists. New graduates usually find themselves deciding whether to work in general dental practice providing both state funded or private dental care, or in the salaried public dental service. Many graduates choose to continue their education with the aim of becoming a specialist in one area within dentistry.

Dentistry does give scope to work and travel worldwide. Citizens of the EU who graduate from an EU dental school may practice anywhere in the EU and there is currently demand for dentists all over Europe.

Your degree and professional practice (B.A., B.Dent.Sc)

The degree Bachelor of Dental Science (B.Dent.Sc) conferred by Trinity College Dublin entitles EU citizens to register immediately after graduation as a dentist on the Register of the Dental Council of Ireland and they may also register with 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 may be required to pass specified examinations. There is a mutual recognition agreement between Ireland and Canada whereby dental graduates from Irish dental schools can practice dentistry in Canada without the necessity to complete an additional two years in a dental institution in Canada.

Further information

www.dentalhospital.ie (Select the Education link.)
Tel: +353 1 896 2043 / 1690
E-mail: info@dental.tcd.ie



Dental technology (ordinary degree)

COURSE CODES:	TR803
PLACES 2013:	6
POINTS 2012:	390
DEGREE AWARDED:	B.Dent.Tech

This is a restricted entry course. Applications must be submitted by 1 February 2014.

Applicants will receive a questionnaire in March to be completed and returned.

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

Course overview

This **three-year course** is designed to give you a high level of understanding and technical skills in all of 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. The main aim of this course is to educate and train students to become part of the dental team for the planning, designing and fabrication of intra-oral appliances. You will be integrated with undergraduate Dental science students for some elements of the course to ensure effective teamwork throughout the dental profession.

Is this the right course for you?

As a dental technologist, you will be working as part of the dental team fabricating prosthetic dental devices. Therefore, if you have an interest in oral health, are creatively minded and possess good manual dexterity skills, you may be suited to this course.

Course content

Based in the Dublin Dental University Hospital at Trinity College, this course includes lectures and practicals in the basic sciences and in all aspects of laboratory techniques and technology. In the third year, you will be based in a dental laboratory, both to learn laboratory management and to develop your technical skills.

First year

- Fixed prosthodontics and occlusion and function
- Complete and removable partial denture technology
- Orthodontics
- Physics
- Chemistry

Second year

- Complete denture technology
- Removable partial dentures
- Fixed prosthodontics
- Orthodontics
- Materials science
- Business studies

Third year

- Complete and removable partial denture technology
- Fixed prosthodontics
- Orthodontic technology
- Dissertation

Assessment

Continuous assessment in the practical aspects of your work is combined with end-of-year written examinations in years one and two. In year three you will undertake production work for patients and record this experience in a log diary. In addition you will undertake a literature review and dissertation.

Career opportunities

This course allows you to pursue a career as a dental technologist working in a dental laboratory, become a dental laboratory owner; teach dental technology; partake in further studies – dental materials science or research. It would also assist you in becoming a representative for a dental materials/equipment company or to move into forensic work. Dental technology gives scope to work and travel abroad.

Further information

www.dentalhospital.ie (Select the Education link.)
E-mail: catherine.gorman@dental.tcd.ie
Tel: + 353 1 612 7256

Human health and disease

COURSE CODES:	TR056
PLACES 2013:	35
POINTS 2012:	540*
DEGREE AWARDED:	B.Sc.

Special Entry Requirements:

Leaving Certificate	HC3	Biology
	HC3	In one of physics, chemistry, physics/chemistry
Advanced GCE (A-Level)	Grade C	Biology
	Grade C	In one of physics, chemistry

What is Human health and disease?

The Human health and disease degree trains students for work in the field of biomedical research. It brings to life the fascinating connections between structure and function in the human body and explores the health and disease continuum in depth, including teaching on how medical therapies act to treat or even prevent disease. As an example, understanding brain structure and biochemistry allows us to appreciate how neurones communicate and this in turn is helping biomedical researchers and clinicians to identify new and effective ways to treat and prevent diseases such as dementia.

A central feature of the learning experience is the development of a core set of real-life, transferable skills in the following areas: laboratory technique, group project work, data analysis, public presentation, report writing, research methodology and critical thinking.

Is this the right course for you?

The programme will suit you if you want to obtain a degree that provides comprehensive instruction in all aspects of basic human biology and applied biomedical science.

Course overview

The degree is structured around three main interconnecting themes namely; 1) Basic human biology 2) Applied biomedical science and 3) Transferable skills and TCD graduate attributes.

The Freshman (first two) years

You will study the structure and function of the human body from a 'molecule to man' perspective through lectures, tutorials and laboratory classes in cell biology, biochemistry, physiology and anatomy (including dissection). Modules based on critical thinking, problem-based learning, presentation skills and research and statistics will further contribute to the development of a core skill set, as outlined above.

The Sophister (third and fourth) years

In the third and fourth years, a combination of modules which cover the nature, classification, diagnosis, prevention and

treatment of disease are taken. Disease is considered from the basic molecular level through to its context in society in terms of research and public health priorities and correlates. Delivery of clinically focused material by specialist clinicians is included.

As a fourth-year student, you will undertake advanced modules on the molecular basis of disease and cutting-edge advances in biomedical science. **A major component of the fourth year will be a comprehensive laboratory-based project in biomedical research supervised by leading researchers in Trinity College and its affiliated teaching hospitals in Dublin. Students may apply for selection via a competitive process to undertake this project at an ERASMUS partner institute.** Project topics are varied and include, to name but a few, cancer biology, neuroscience, tissue engineering, gastrointestinal disorders, autoimmune disease, epidemiology and public health research.

Assessment

Individual and group based continuous assessment of laboratory work, group project work, scientific writing skills and portfolio generation accompanies end-of-year examinations.

Did you know?

- The School of Medicine in Trinity College is a member of EuroLife, a consortium of leading European medical schools that aims to enhance research and training in the medical sciences that underpin developments in human healthcare.

Study abroad

The Human health and disease degree programme is linked with the Biomedicine Bachelor's programmes at the prestigious Karolinska Institutet in Stockholm Sweden and The University of Gottingen in Germany.

Through a formal ERASMUS exchange agreement, students can, on a competitive basis, avail of the opportunity to complete their final year project in Stockholm or Gottingen in a leading international laboratory.

Career opportunities

The course emphasises the crucial links between the basic and applied biomedical sciences and addresses how advances in both are translated into improvements in patient care and the health of the wider population. Graduates are therefore ideally qualified to participate in health-related research or health promotion within academia or industry. Graduates are also ideally trained for entry to graduate medical degree programmes. A B.Sc. is also an appropriate qualification for entry into a broad range of other careers (e.g. teaching and management).

Further information

www.medicine.tcd.ie/physiology/undergraduate/human_health_disease

Human nutrition and dietetics

COURSE CODES:	DT223
PLACES 2013:	25
POINTS 2012:	560
DEGREE AWARDED:	B.Sc. (Hum.Nut.& Diet.)

Special Entry Requirements:

This is a joint course between TCD and the Dublin Institute of Technology (DIT). For full details of admission requirements contact the DIT.

Students are required to undergo Garda vetting before placement-based studies can proceed.

Application Procedure

In addition to standard CAO applications, mature entry applications are considered. Further details are available from:

The Admissions Office
 Dublin Institute of Technology
 143-149 Lower Rathmines Road
 Dublin 6
 Tel: +353 1 402 3445
 Fax: +353 1 402 3399
 E-mail: admissions@dit.ie
 Website: www.dit.ie/study

Applications from international non-EU students should be directed to:

The International Student Office
 Dublin Institute of Technology
 143-149 Lower Rathmines Road
 Dublin 6
 Website: www.dit.ie/study/internationaloffice/howtoapply

Course overview

This four-year full-time course is run jointly by the Dublin Institute of Technology (DIT) and TCD. Students are registered in both institutions. The course is designed to provide an integrated education in the science of nutrition and practice of dietetics and their application to human health and wellbeing, at both individual and community level. On successful completion, the B.Sc. (honors) degree in Human nutrition and dietetics is awarded jointly by DIT and TCD.

Nutrition is a branch of science devoted to the study of nutrients. It spans a broad-ranging area, overlapping with many other disciplines including biochemistry, physiology, cell biology, dietetics, medicine, communications and public health.

Dietetics is one of the health and social care professions. Dietitians apply their knowledge of food, nutrition and related disciplines to promote health, prevent disease and contribute to the management of disease.



Is this the right course for you?

You will need a strong interest in science subjects and a particular interest in the relationship between food and health. Good interpersonal skills and an ability to work with others are important attributes. The course will place considerable demands on your time.

Graduates from this course are equipped to practice at entry level as a dietitian, a public health nutritionist or to work as a nutritionist in the industrial sector.

Course content

The modules in this course are designed to enable the acquisition of scientific knowledge relevant to human nutrition and dietetics, the development of analytical and critical thinking, the integration of theory into practice, the ability to work and communicate with others in an ethical and adaptable manner, and to foster interest and capability in research and development.

The Freshman years

During the Junior and Senior Freshman (first two) years you will develop a broad understanding of the relevant pre-clinical subjects. You will study:

- Physics, chemistry, clinical chemistry
- Cell biology, physiology, biochemistry
- Microbiology/immunology
- Food studies, nutrition science, nutrition through the life cycle
- Communications, behavioural science
- Research methodology and statistics
- Professional practice studies

The Sophister years

In the Junior and Senior Sophister (third and fourth) years, foundation subjects are strengthened (research methods), specialist subjects are introduced (management, epidemiology, medicine and therapeutics, medical science) and the degree subjects studied to an advanced level (nutrition, dietetics).

You will undertake a three-month research project in the final year, with the option to carry this out in a partner European or American university.

Professional placements

Practice placements are a compulsory element of the programme. These placements are divided into three blocks, one at the end of each of the first three years. Each placement will be followed by a period of college-based consolidation.

Practical placements are arranged in a variety of hospital and community settings in Ireland.

Assessment

End-of-year written examinations, together with continuous assessment of course work, practical work and assignments make up the assessment process. Oral examinations are conducted in some subjects.

Continuous assessments are carried out during your professional placements. You will also write a thesis to report the results of your final-year research project, and present and defend it orally.

Career opportunities

When you graduate, you will be well placed to find work as a dietitian or clinical nutritionist in a hospital or in the community. 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.

Did you know?

- This course is the only one leading to a professional qualification in dietetics in the Republic of Ireland. 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.

Further information

www.medicine.tcd.ie/nutrition-dietetics

Additional information can also be obtained from:

- The Irish Nutrition and Dietetic Institute (www.indi.ie)
- The Nutrition Society (www.nutritionociety.org)

Student Profile

Patricia Dominguez Castro

"I was always attracted to the study of nutrition because I was fascinated by the possibility of enhancing health through implementing dietary changes. When I read the curriculum of the course offered by Trinity and DIT I thought that it offered the perfect combination of science and practical skills I was looking for. This is one of the few courses where you can study nutrition and dietetics at the same time, so when you graduate you have the practical skills backed up by scientific evidence. Being a mature student with a family, I felt a bit nervous about leaving my job to embark on a full-time undergraduate course. However, I do not regret anything as I have always found professional lecturers ready to help. Moreover, last year I became a Trinity scholar, which gave me the peace of mind of having my fees covered now and the possibility of funding for future postgraduate studies. Trinity College is internationally recognised for its cutting-edge research in many areas and the possibilities after graduating from the course are endless: they range from becoming a clinical dietitian to becoming a researcher in the area or being an entrepreneur and setting up your own company. Nutrition is a relatively young science that has still a lot to be discovered and I am looking forward to making my small contribution to that."



Medicine

COURSE CODE:	TR051
PLACES 2013:	123
POINTS 2012:	746*
DEGREES AWARDED:	M.B. (Bachelor in Medicine), B.Ch. (Bachelor in Surgery) and B.A.O. (Bachelor in Obstetrics).

This is a restricted entry course.

Applications **MUST** be made online via www.cao.ie not later than 1 February 2014.

Applicants must also register for the HPAT-Ireland admission test by 20 January 2014 (via www.hpat-ireland.acer.edu.au).

Students must achieve all grades required for minimum entry requirements and course requirements in ONE SITTING of their Leaving Certificate/Matriculation/Advanced GCE (A-level) examinations. See note 3B (page 35) for further details.

Special Entry Requirements:

Leaving Certificate HB3 + HC3 In two of physics, chemistry, biology, physics/chemistry or agricultural science
If you do not have a qualification in physics you must present mathematics at OC3/HD3 or better

Advanced GCE (A-Level) Grade B + Grade C In two of physics, chemistry or biology
If you do not have a qualification in physics you must present GCSE mathematics at grade B or better

Combinations of subjects not permitted:

Physics/chemistry with physics or chemistry

Agricultural science with biology

See page 199 for vaccination requirements with regard to Hepatitis B, Hepatitis C and Tuberculosis.

Students will be required to undergo Garda vetting, see page 30 for further details.

Why study Medicine at Trinity College?

The School of Medicine at Trinity College was founded in 1711 and has played a central role in the golden age of Irish medicine. Today it is an international leader in biomedical research and education.

Students of medicine at Trinity College will follow a **five-year programme** leading to the degrees of Bachelor in Medicine, Bachelor in Surgery and Bachelor in Obstetrics. Following graduation you are required to spend one year as an Intern in an approved hospital(s) before becoming a fully registered medical practitioner.

The major characteristics of medicine at Trinity College are:

- Integration of scientific and clinical material and delivery in context
- Facilitation of active learning and a deep strategic approach
- Early and comprehensive development of technical and interpersonal skills
- **Clinical contact from year 1 of the programme**
- **Research module in year 2**
- Defined programme of clinical rotations
- Continuous review and revision of the assessment programme to ensure alignment with the stated outcomes and course content
- Promotion of multiple assessment formats including continuous assessment
- Recognition of the patient as an active partner
- Prioritisation of personal and professional development

Teaching hospitals

Trinity College's two main general teaching hospitals, St. James's Hospital and Tallaght Hospital, are up-to-date tertiary level hospitals. They have several specialist units. Specialist affiliated hospitals include:

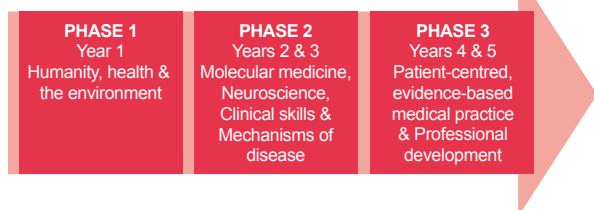
Bloomfield Care Centre, Central Mental Hospital (Dundrum), Cherry Orchard Hospital, Children's University Hospital (Temple Street), Coombe Women and Infants University Hospital, Hermitage Medical Clinic, Naas General Hospital, National Maternity Hospital (Holles Street), National Rehabilitation Hospital, Our Lady's Children's Hospital (Crumlin), Our Lady's Hospice and Care Services (Harolds Cross and Blackrock), Peamount Hospital, Royal Victoria Eye and Ear Hospital, St Edmundsbury Hospital, St. Patrick's University Hospital, St Vincent's Hospital (Fairview).

Is this the right course for you?

The medical programme at Trinity College is a challenging but highly rewarding experience. The academic requirements are high and there will be considerable demands on your time. As medicine is ultimately about the care of people, you will also need to feel comfortable in a people-oriented environment where teamwork will be equally as valuable as your individual contribution.

Course content

Curricular Structure



Years 1, 2 and 3

Students study the biomedical sciences to create an understanding of the knowledge underlying medicine and begin clinical science in the first term through the Family case study. Teaching is a combination of Problem Based Learning (PBL) in Year 1, small group teaching, lectures and practical demonstrations. Self-directed learning and use of e-learning are encouraged throughout the course. The majority of the teaching in years 1 and 2 takes place at the School of Medicine, Trinity Biomedical Sciences Institute at the main University campus, with the remainder in the hospital setting. Year 3 combines the taught course programme and an extensive hospital placement programme in order to advance and integrate clinical skills.

Medical Moderatorship and Intercalated M.Sc. in Biomedical sciences

After completing year 3 successfully, you may be permitted to take a year out from the medical course to undertake a moderatorship in science in an approved subject. This is subject to the availability of places and the agreement of the head of department concerned. An intercalated M.Sc. in Biomedical sciences is also available to medical students who successfully gain a 1st or 2:1 in third-year modules. The M.Sc. is a one-year full-time programme. The subjects undertaken are molecular medicine, neuroscience and bioengineering. Both courses offer students the opportunity to gain experience in scientific research if you are interested in the possibility of a career in academic medicine.

Years 4 and 5

During these two years the emphasis is on continuous enhancement of the skills and attitudes acquired in the first three years of the course. There is, of course, acquisition of important new knowledge and most of this is achieved through interaction with a wide range of consultants and mentors both on the wards and at various hospital conferences. The undergraduate student becomes an integrated member of each team to which he/she is attached and is expected to participate fully in all aspects of that team's activities. This expectation will inevitably involve some early morning and late evening work. The duration of team attachments vary from two weeks to two months so that each student is exposed to a wide range of general and specialist areas. There are excellent library facilities available on both of the major teaching hospital sites. There is a range of special structured tutorials included in the final year to ensure comprehensive cover of important areas for all students.

The majority of hospital attachments take place in St. James's Hospital in Dublin and the Adelaide and Meath Hospital incorporating the National Children's Hospital in Tallaght; however, some training also takes place in regional hospitals around Ireland and in hospitals dedicated to particular areas of medicine.

Further detailed information in relation to the curriculum is available at: www.medicine.tcd.ie/education/undergraduate/curriculum/

Study abroad

From the beginning of the third year students attend hospital continuously. In addition, students undertake clinical electives in each of the summers after the third and fourth medical years. A total of 8 weeks of electives must be completed prior to entering the final medical year. **These can be undertaken in a hospital, clinic or research laboratory at home or abroad. The School of Medicine currently has elective links with Columbia University (New York, NY), Georgetown University (Washington, DC), University of Pennsylvania (Philadelphia, PA) and Johns Hopkins University (Baltimore, MD)** for electives at the end of the fourth medical year. Students may avail of the opportunity to undertake a one-year Erasmus exchange at the University of Tours, France during the third medical year.

Assessment

The assessment structure is wide and varied and includes in-course assessment of practical and clinical skills, as well as case studies, research projects, formal written and oral examinations and objective structured clinical examinations.

Intern year

On completion of the medical degree 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. A national application and matching process is in place for Intern posts in Ireland. This is currently managed by the HSE. Students undertaking internship/residency outside of the Republic of Ireland will be required to register with the relevant governing body in that jurisdiction.

Career opportunities

As a doctor, you will have plenty of options to choose from when it comes to making a decision about your career. Most people wait until their year as an intern is complete before committing to one area over another. Some then enter general practice, while many more continue their training as a general physician or surgeon, or in a related specialist field. Alternatively, you might, as others have done, prefer to work in an area such as hospital management, or make research your priority by opting for a career in academic medicine.

Further information

Medical School Office

Trinity College Dublin
Tel: +353 1 896 1075
E-mail: medadmin@tcd.ie
www.medicine.tcd.ie

Student profiles: see course description at: www.tcd.ie/courses

Did you know?

- Trinity College Dublin is ranked in the top 100 universities in the world for Medicine (by the QS World University Rankings 2013).

Midwifery

COURSE CODES:	TR913	TR914 (Mature)
PLACES 2013:	25	15
POINTS 2012:	460*	233*
DEGREE AWARDED:	B.Sc. (A.Obs.)	

Special Entry Requirements:

Leaving Certificate	O/HD3	Mathematics
	O/HD3	In one of biology, physics, chemistry, physics/chemistry or agricultural science
GCSE	Grade C	Mathematics
	Grade C	In one of biology, physics or chemistry

Note for mature applicants:

Applications must be received by the CAO by 1 February of the proposed year of entry. You are not required to submit a mature-student supplementary application form to Trinity College. However, you will be invited to attend a written assessment by the Nursing Careers Centre.

Screening (including a medical) and vaccination will be organised by the health service provider responsible for the practice area where you will be on placement.

See page 199 for vaccination requirements with regard to Hepatitis B, Hepatitis C and Tuberculosis.

Students will be required to undergo Garda vetting, see page 30 for further details.

What is a Midwife and midwifery?

The term 'midwife' means 'with woman'. As a midwife, you will be helping parents and families at one of the most crucial times of their lives, supporting the woman during pregnancy, childbirth and the post-natal period. Midwives play a vital role in promoting and maintaining health, facilitating normal childbirth and helping women make informed choices about their care. The midwife uses midwifery skills to provide care that is individual to each woman and recognises the woman's ownership of her birth experience. The midwife is the key professional providing continuity of care and promoting choice and control to women in pregnancy and birth, and to women and their babies following birth. The core concepts of the midwifery profession are of:

- Normality – childbirth is viewed as a normal event in the life cycle, a normal healthy event
- Woman-centred – the focus of midwifery practice is pregnant women and their families and delivering care in woman-centred maternity services.
- Respect: midwifery care is delivered in a manner that respects the uniqueness and dignity of each person regardless of culture or religion.

- Partnership – partnership between the woman and the midwife is fundamental to midwifery practice. It is based on mutual trust, support and collaboration, which facilitates informed choice and decision-making and the empowerment of both the woman and the midwife.
- Client first – decisions about an individual midwife's scope of practice should always be made with the woman's and her family's best interests foremost and in the interest of promoting and maintaining best quality maternity services for women and their families.
- Evidence based – midwifery practice is based on the best available evidence.
- Advocacy – midwifery practice involves advocacy for the individual woman and her family.

Course content

This four-year programme will be offered in partnership with two linked maternity care providers: The Coombe Women and Infants University Hospital and The Rotunda Hospital. The first three years combine learning in university and midwifery practice in the maternity hospitals and will take place during the academic year with the usual academic holidays. The final year will include a 36-week period of internship in midwifery practice.

This programme will provide you with the knowledge and skills to meet the needs of women and their families in an individualised, culturally sensitive manner. There are two components to the midwifery degree programme – a theoretical component and a midwifery practice component.

Like all professional courses in health sciences, Midwifery places extra demands on students' time. It can be demanding, both physically and emotionally and so you should ensure that you are in a position to fully engage with the course during your time in College.

Theoretical component

The theoretical component of the course will be taught in the Trinity College School of Nursing and Midwifery, D'Olier Street and in the Trinity Centre for Health Sciences in St. James's Hospital. Teaching methods include lectures, small-group teaching, tutorials and practice classes. You will typically spend 3-4 days in theory classes each week and each day will consist of approximately 6 hours per day in lectures, tutorials and laboratory practicals.

The programme content will cover such areas as:

- Midwifery practice – knowledge and skills; Communication and interpersonal skills; Professional, personal, ethical and legal issues; Knowledge base for midwifery practice to include: biological sciences, psychology, pharmacology, non-pharmaceutical approaches; Social theory for midwifery practice; Research; Health promotion; Maternal and social care services in Ireland

Midwifery practice component

For the practice component you will be based in one of the maternity care providers: the Coombe Women and Infants University Hospital or the Rotunda Hospital. Midwifery students will also undertake other clinical placements, for example, mental health, medical and surgical. In the first three years students will be required to complete three, four to six-week **clinical placements**, which will consist of 30-35 hours (approximately) supernumerary practice per week in a practice setting. The final year will include a 36-week period of internship in midwifery practice.

Midwifery clinical placements take place throughout the four years of the programme. You will begin your first midwifery clinical placement in November of the first year of the programme. Before this placement you will have spent approximately one day per week with lecturers and midwives in the maternity hospitals.

Which maternity care provider will you train with?

After you accept an offer to this programme, you will receive a welcome pack from Trinity College. This pack contains a form asking you to indicate which maternity care provider you would prefer to be linked with. Requests are dealt with on a first-come, first-served basis. Where possible you will be assigned your first choice; however, if the number of applicants exceeds the number of places available you will be assigned your second choice. A reserve list is held and if a vacancy arises it may be possible to transfer to your first choice.

Assessment

Assessment of learning in midwifery practice is an important component of the programme and will take place throughout the programme. Other forms of assessment include written examinations and assignments, presentations, debates, teaching sessions, etc.



Career opportunities

As a graduate you will be eligible to apply to have your name entered in the midwives division of the Register of Nurses maintained by the Nursing and Midwifery Board of Ireland and begin your career as a midwife. Midwives may choose to work in a variety of health care settings. The majority of midwives practise within the Health Service, in maternity hospitals, maternity units of large and small general hospitals, in private maternity hospitals, etc. Midwives can also practice independently and there is a small-group of midwives who do so. There are also a number of midwife-led initiatives being developed.

Midwives have an option to develop their career in many different ways; progress is along three broad pathways: practice, management, education and research. Midwives educated in the Republic of Ireland may move freely within the European Union and in most countries worldwide.

Further information

<http://nursing-midwifery.tcd.ie/undergraduate/pre-registration/>

E-mail: nursing.midwifery@tcd.ie

Tel: +353 1 896 2692

Bachelor in midwifery studies

DEGREE AWARDED: B.M.S.

Application Procedure:

This is not a CAO course, applications are made directly to the University via the course website: www.tcd.ie/courses

Note: This course will be run if there are sufficient numbers of suitable applicants.

Registered nurses and midwives in the employment of public health care agencies may apply to their health service employer for inclusion in the Department of Health and Children's part-time fees initiative. Where fees are not paid by the health service employer, students registered for the B.M.S. will be required to pay tuition fees.

Course overview

Contemporary trends and developments in the delivery of health care present a challenge to the midwifery profession in terms of reclaiming and expanding the midwife's role and responsibilities.

This degree programme aims to provide practicing midwives with an increased level of knowledge, skills and attitudes about the principles and processes of practice. The programme will:

- Develop students' knowledge of the nature of midwifery
- Enable students to analyse the full extent of the midwife's role and to consider a range of issues relevant to contemporary midwifery practice
- Challenge students' thinking and assumptions about the profession

Who is eligible to apply?

Midwives who hold registration as a midwife with the Nursing and Midwifery Board of Ireland and who qualified with the Diploma in Midwifery (or equivalent), may apply for admission into this one-year programme leading to a Bachelor in midwifery studies honors degree.

Course structure

This course takes place over one academic year on a part-time basis. You will be required to attend the University for one study week at the beginning of the course and one day a week throughout the teaching terms. Although there is no specific clinical component, students are expected to be practising midwifery whilst undertaking the course and will undertake an assignment which has a particular practice-based focus.

Course content

The course comprises five modules:

- Governance in midwifery practice
- Expectant approach to midwifery practice
- Health care quality and informatics
- Communication and the facilitation of learning in midwifery practice
- Research methods

Assessment

Assessment methods are designed to require both an analytical approach to reading and reference to the student's own practice. A combination of essays, projects and group work is used and a research proposal forms part of the research methods module.

Further information

Tel: +353 1 896 2692

E-mail: nursing.midwifery@tcd.ie



Nursing:

General nursing, Mental health nursing, Intellectual disability nursing, Children's and general integrated nursing

	PLACES 2013:	POINTS 2012:
TR091 General:	92	420
TR092 General (mature applicants):	14	227
TR093‡ General, Adelaide:	29	400*
TR094‡ General, Adelaide (mature applicants):	4	216
TR095 Mental health:	20	395*
TR096 Mental health (mature applicants):	25	212*
TR097 Intellectual disability:	17	395
TR098 Intellectual disability (mature applicants):	13	203
TR911 Children's and general integrated:	15	490*
TR912 Children's and general integrated (mature applicants):	5	230*
DEGREE AWARDED:	B.Sc. (Cur.)	

Special Entry Requirements:

Leaving Certificate	O/HD3	Mathematics
	O/HD3	In one of biology, physics, chemistry, physics/chemistry or agricultural science
GCSE	Grade C	Mathematics
	Grade C	In one of biology, physics or chemistry

‡ See note 16, page 36.

Note for mature applicants:

Applications must be received by the CAO by 1 February of the proposed year of entry. You are not required to submit a mature-student supplementary application form to Trinity College. However, you will be invited to attend a written assessment by the Nursing Careers Centre.

Screening (including a medical) and vaccination will be organised by the health service provider responsible for the practice area where you will be on placement. See page 199.

Students will be required to undergo Garda vetting, see page 30 for further details.

See also:

TR913/914: Midwifery, page 184

Course overview

With over one thousand undergraduate nursing students in Trinity College, you will become part of a vibrant student community. You will have the opportunity to meet and mix with students from all nursing disciplines as you study core modules together. You will also form cohesive bonds within your own discipline as you begin to specialise within your chosen area of nursing. Nursing students are taught predominantly in the School of Nursing & Midwifery at 24 D'Olier St, which is a wonderful old building in the heart of the capital. The School is a great place to learn and interact with classmates and with its close proximity to Trinity College's main campus, nursing students are never far from the centre of student life.

This four-year nursing programme (Children's and general integrated nursing is 4.5 years) is offered in partnership with six health service providers. Students remain with the same health service provider for the duration of their programme and become an integral part of the hospital. Trinity College's six linked health service providers are:

General nursing

- Tallaght Hospital
- St. James's Hospital

Mental health nursing

- Health Service Executive Dublin Mid-Leinster
- St. Patrick's Hospital

Intellectual disability nursing

- Stewart's, Palmerstown
- Muiriosa, Moore Abbey

Children's & general integrated nursing

- The National Children's Hospital at Tallaght Hospital

Is this the right course for you?

A genuine interest in people and a desire to care for others are core requirements for any individual who wishes to become a nurse. In addition you will need to have a keen interest in healthcare and be capable of working as part of a team.

Like all professional courses in health sciences, nursing places extra demands on students' time. It can be demanding, both physically and emotionally and so you should ensure that you are in a position to fully engage with the course during your time in College.

Course content

This course will provide you with the knowledge, skills, attitudes and professional values necessary to provide high-quality, competent and caring practice in your chosen discipline of nursing. There are two components to the nursing degree course – a theoretical component and a clinical component.

Theoretical component

The majority of the theoretical component of the course will be taught in the Trinity College School of Nursing and Midwifery building, which is located on D'Olier Street, minutes from the main campus. Classes are also held on other sites including the main Trinity College campus and in the Trinity Centre for Health Sciences in St. James's Hospital. Teaching methods include lectures, tutorials, practical classes, clinical skills laboratories, group teaching, web-based learning and reflective workshops.

For the theoretical component, students will undertake modules of study that are shared with all nursing disciplines and modules that are discipline-specific. The subjects of study are Nursing, Biological sciences, Psychology and Sociology, with the emphasis being on Nursing (see the table below for module titles). In years one and two students will concentrate on nursing, biological, behavioural and social sciences. In years three, four and five (where applicable), students will develop and enhance their knowledge, skills and attitudes for professional nursing practice.

Clinical component

For the clinical component you will be linked with one of the health service providers and will also have clinical placements in a variety of clinical settings. For General, Mental health & Intellectual disability disciplines, this will consist of 48 weeks taking place in blocks ranging from 4 to 14 weeks in each year of the programme. During the fourth year of the programme you will undertake a 36-week roster of continuous placement. The Children's and general integrated course will consist of 58 weeks of clinical placements along with a 36-week roster of continuous placement. The rostered placement spans the fourth and fifth years of the course.

As the course progresses, you will undertake a number of different clinical placements in your chosen discipline.

General nursing

General nursing involves caring for and meeting the needs of adults and their carers/families in a variety of hospital and community clinical settings. As key members of the interdisciplinary healthcare team and in partnership with patients, general nurses provide for the physical, psychological and social wellbeing of persons with acute or chronic physical illness. They are required to be motivated, knowledgeable, accountable and responsible, and possess excellent clinical and interpersonal skills. General nurses also have an important part to play in health education, health promotion and rehabilitation of persons across the age spectrum.

- **Medical nursing** – general/specialist (including day care, outpatients, coronary care, high dependency units)
- **Surgical nursing** – general/specialist (including day care, outpatients, coronary care, high dependency units)
- **Accident & Emergency and outpatients**
- **Children's nursing**
- **Mental health nursing**
- **Care of the older person**
- **Home nursing/community** (including primary health care, voluntary and statutory agencies, intellectual disability)
- **Operating theatre**
- **Maternity care**

Mental health nursing

Mental health nursing is a highly rewarding specialist nursing discipline. As a mental health nurse you will work with people who experience mental health illness or distress. Mental health nursing aims to work in partnership with the person, family/advocate to enable them mobilise their own inner resources as well as professional resources, in a way that promotes personal growth, maximum development of potential and recovery.

As a mental health nurse you will work and care with people, both in community and hospital services. As a mental health nursing student you may expect to acquire a broad based education with particular emphasis on personal and interpersonal knowledge, as well as knowledge from nursing theory, social, psychological and biological sciences. The education programme provides nurses with the knowledge, skills and attitudes to meet the needs of the person and their family in an individualised, empowering and culturally sensitive manner.

- **Mental health nursing** (acute and long-term care in mental health)
- **Community-based care and rehabilitation**
- **Specialist areas** (e.g. addiction studies, child and adolescent psychiatry, special care units, behaviour therapy and forensic psychiatry)
- **Care of the older person**
- **Adult general nursing**
- **Management**

Intellectual disability nursing

The intellectual disability nurse provides therapeutic interventions, practical support, and nursing care for persons with an intellectual disability of all ages and abilities. The intellectual disability nurse may work with persons with an intellectual disability in a diversity of roles, from intensive physical nursing of individuals with a profound disability, to facilitative guidance in assisting children, adolescents and adults to live lives of the highest quality in the community.

- **Education and development of the child** – including a balance of caring and developmental experiences across a variety of generic and specialist settings
- **Education and development of the adult** – e.g. training, work, activation and living areas
- **Disorders of human behaviour** – specialising in the care of persons with disorders of human behaviour, including those with intellectual disability
- **Acute nursing** – specialising in the care of persons with acute nursing needs, including those with intellectual disability who have physical disability/illness
- **Specialist areas** – e.g. physiotherapy, communication, speech and language, and physical education
- **Management**

Children’s and general nursing

A Registered Children’s Nurse (RCN) is responsible for promoting optimum health and for preventing ill health amongst children up to the age of 18, intervening where appropriate to provide holistic care for children and families. Children’s nursing recognises that care is ideally provided in collaboration with children and their families, and in conjunction with other health professionals. Children’s nurses deliver care to children of all ages in a variety of settings which makes it a very interesting varied career choice that is fulfilling.

- **Medical nursing** of infants, children and adolescents within a family-centred framework (general and specialist placements)
- **Surgical nursing** of infants, children and adolescents within a family-centred framework (general and specialist placements)
- **Accident and Emergency nursing** of infants and children within a family-centred framework
- **Operating theatre nursing** of infants, children and adolescents within a family-centred framework
- **Mental health issues** for children and adolescents and their families
- **Community nursing** within a family-centred framework
- **Maternity and neonatal care** within a family-centred framework

Which health service provider will you train with?

When you accept an offer to one of the nursing disciplines you will receive a welcome pack from Trinity College. 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. Most students are allocated their first choice of health service provider.

Modules of study

For a full list of modules please see our website:
www.nursing-midwifery.tcd.ie/undergraduate

Assessment

A combination of examinations, essays, clinical projects, clinical skills, laboratory techniques, literature reviews (review of past and current literature relating to the subject matter), reflective practice (thinking about an experience and reflecting on its meaning) and clinical assessments is used.

Career opportunities

As a graduate you will be eligible to apply to have your name entered in the relevant division(s) of the Register of Nurses maintained by the Nursing and Midwifery Board of Ireland and work as a nursing professional in your chosen discipline. The Children’s and general nursing programme combines the general programme and integrates a children’s programme which results in a programme which spans the seven ages of man and allows for registration as both a children’s and a general nurse with the Nursing and Midwifery Board of Ireland.

In spite of the economic climate there are many nursing vacancies in both public and private healthcare institutions in Ireland and worldwide. A degree from Ireland’s top School of Nursing & Midwifery will of course assist you in finding the right job in your chosen career. You will also be qualified to continue your education and to further specialise should you wish to do so. The Trinity School of Nursing offers a wide range of postgraduate courses for furthering your studies. Nurses also take up careers in industry, particularly in the marketing of healthcare products.

Further information

<http://nursing-midwifery.tcd.ie/undergraduate/pre-registration/>

E-mail: nursing.midwifery@tcd.ie

Tel: +353 1 896 2692

Bachelor in nursing studies

DEGREE AWARDED: B.N.S.

Application Procedure:

This is not a CAO course, applications are made directly to the University via the course website: www.tcd.ie/courses

Note: This course will be run if there are sufficient numbers of suitable applicants.

Registered nurses and midwives in the employment of public health care agencies may apply to their health service employer for inclusion in the Department of Health and Children's part-time fees initiative. Where fees are not paid by the health service employer, students registered for the B.N.S. will be required to pay tuition fees.

Course overview

Contemporary trends and developments in the delivery of health care have brought about an expansion of the nurse's role and responsibilities. These developments have resulted in the need to provide the nurse with a depth and breadth of knowledge at graduate level.

This degree programme aims to provide nurses with an increased level of knowledge, skills and attitudes about the principles and processes of practice. The programme will develop students' knowledge concerning the nature of nursing and challenge their thinking and assumptions about their profession.

Who is eligible to apply?

Candidates who hold registration with the Nursing and Midwifery Board of Ireland- and who qualified with the Diploma in Nursing studies (or equivalent), may apply for admission into this one-year programme leading to a Bachelor in nursing studies honors degree.

Course structure and content

The Bachelor in nursing studies is a part-time modular programme. Lectures are provided one day per week and there is one study week at the start of the academic year in Trinity College. Successful completion of the programme will result in the award of a Bachelor in nursing studies degree (B.N.S.).

The programme is composed of five compulsory modules, which address current issues in nursing practice and health care.

- Leadership and management in nursing practice
- Health care quality and informatics
- Communication and the facilitation of learning in nursing practice
- Contemporary issues in nursing practice
- Research methods

Assessment

All modules are assessed by continuous assessment (assignments). To achieve an overall pass a minimum of 50% must be achieved in each module.

Further information

Tel: +353 1 896 2692

E-mail: nursing.midwifery@tcd.ie



Occupational therapy

COURSE CODES:	TR054
PLACES 2013:	40
POINTS 2012:	510*
DEGREE AWARDED:	B.Sc. (Cur. Occ.)

Special Entry Requirements:

Leaving Certificate	HC3	In one of: physics, chemistry, biology, physics/chemistry or agricultural science
Advanced GCE (A-Level)	Grade C	In one of: physics, chemistry or biology

See Precautions against infectious diseases page 199.
Students will be required to undergo Garda vetting, see page 30 for further details.

What is Occupational therapy?

The World Federation of Occupational Therapy maintains that occupational therapy is a profession concerned with promoting health and well-being through occupation. The main goal of occupational therapy is to enable people to participate in meaningful activities of everyday living, for example self care, work and leisure activities. Occupational therapists believe that participation in everyday activities can be supported or restricted by physical, social, attitudinal and legislative environments. By enabling people to engage in activities that hold meaning for them, occupational therapists aim to enable people to improve their day-to-day quality of life.

Occupational therapy interventions consider:

- **The individual person** – improving or maintaining their level of physical, cognitive (thinking), affective (emotional) and social ability.
- **The occupation** – examining the self-care, leisure and work-related activities people value in their daily lives and making changes to these activities so that they better meet the individual's abilities.
- **The environment** – manipulating or adapting the physical environment so that it does not impede but, if possible, enhances performance; and influencing the social, cultural and institutional environment in ways that enable people to live as independent a life as possible and reach their full potential.

Occupational therapists work in a variety of settings, including community, hospitals, rehabilitation units, schools, universities and, reform centres. Examples of what occupational therapists do include:

- Adapting the home of an elderly person to make it easier and safer for him/her to use.
- Working with people with depression and schizophrenia using activities such as cooking a meal to foster a sense of achievement, develop personal skills and facilitate successful experiences.
- Using play activities to improve the play and movement skills of children with cerebral palsy.
- Running life-skills programmes that enable people with intellectual disabilities develop skills such as budgeting so that they can live more independently in the community.
- Advising community groups about ways to promote health and maintain activity in their lives.
- Enabling people to select and effectively use equipment and appliances, including wheelchairs, dressing aids, computers and other assistive technology, to increase their independence.
- Assessing the ability of someone with acquired brain injury to return to work and then modify that person's work (the job itself and the workplace) to enable this, where possible, to happen.

Is this the right course for you?

Yes, if you are a creative thinker who is open to finding solutions to a multitude of problems and if working with people with diverse abilities is something you enjoy and find stimulating. Visiting an occupational therapy department will give you more understanding of what is involved in this profession.

Occupational therapy at Trinity College

Occupational therapy is based in the Trinity Centre for Health Sciences in a purpose-built complex in the grounds of St. James's Hospital. State-of-the-art teaching facilities at the O.T. school include a capacity for tele-conferencing. The Trinity Centre houses other health sciences disciplines including students studying medicine, physiotherapy, therapeutic radiography and nursing. This 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. Courses which take place on the main campus in College Green, for example psychology, anatomy and social policy, expose students to the wider facilities of Trinity College.

Course content

This four-year degree course incorporates a practical approach to solving problems and fosters a research-oriented and reflective attitude. It embraces evidence based practice.

The Freshman years

The courses studied in the Freshman (first two) years include the study of occupation, occupational therapy theories and interventions with people from children to older adults, anatomy, physiology, psychology, disability studies, research methods and statistics. You will be encouraged to 'learn by doing' in subjects related to personal development such as communications and creative problem solving and in courses that teach the professional and technical skills of practice such as assistive technology. You will be required to engage in service learning through voluntary work and will use experiential learning and group work to develop knowledge and skills in an activity of your choice. During the first two years, there are a total of 11 weeks in supervised professional practice in a variety of health and community care facilities around the country.

The Sophister years

During the Sophister (third and fourth) years you will further develop your knowledge of the theories, principles and practice of occupational therapy; gain an understanding of health/social care systems and policies and of the importance of practicing in an evidenced-based manner. Service learning is continued and incorporates a peer education methodology. Additionally, you will complete a group research project. You will have opportunities to develop important self-directed learning and research skills, which are key areas for practice. Over the course of these two years, you will spend a total of 20 weeks in supervised professional practice.

Assessment

Assessment includes written examinations, essays, project work, presentations, a research project, and competency based assessment while on supervised practice education.

Study abroad

Students may have an opportunity to spend one or more of their professional practice training blocks abroad. To date students have studied/trained in Belgium, Scotland, Australia, and Canada.

Career opportunities

As a qualified occupational therapist from Trinity College Dublin, you will be well equipped to pursue a very rewarding career working with people of all age groups in a wide range of service settings. The course is approved by the World Federation of Occupational Therapists (www.wfot.org.au), which means as soon as you complete your degree you are qualified to work as an occupational therapist in Ireland as well as abroad. Many graduates from the Trinity College course are working in all parts

of the world. Most occupational therapists, over time, develop specialised expertise in areas such as physical rehabilitation, mental health, hand therapy, intellectual disability, paediatrics, services for the elderly and community occupational therapy. Practice areas are expanding, particularly in school settings and in primary care community practices areas. Other examples include work in private practice, work with people who are homeless, and running healthy living and stress management clinics. A number of occupational therapists move into management – managing occupational therapy departments or other health/social care related services. Additionally, the course offers many opportunities for further study.

Did you know?

- The course is the longest established university-based occupational therapy course in Ireland. It uses many innovative teaching methodologies, e.g. peer education, problem-based learning, as well as more traditional methods. Students and staff collaborate on projects that involve both research and service delivery in new areas of practice.

Further information

www.medicine.tcd.ie/occupational_therapy
E-mail: occupthe@tcd.ie
Tel: +353 1 896 3210



Pharmacy

COURSE CODES:	TR072
PLACES 2013:	75
POINTS 2012:	565*
DEGREE AWARDED:	B.Sc. (Pharm.)

Special Entry Requirements:

Leaving Certificate	OC3 or HD3	Mathematics
	HC3	Chemistry
	HC3	In one of physics, biology, mathematics, applied mathematics, geography, geology, or agricultural science

GCSE	Grade B	Mathematics
Advanced GCE (A-Level)	Grade C	Chemistry
	Grade C	In one of physics, biology, mathematics, geology, geography, or applied mathematics

Graduate Entry:

A graduate entry route to this degree is also available. See www.tcd.ie/Admissions/undergraduate/apply/entry-pharmacy for further details.

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 practise as a community or hospital pharmacist, Pharmacy at Trinity College opens a wide variety of professional opportunities in both industry and the healthcare sector.

As much of the course is scientifically led, a strong interest in this area will be important and will make your four years of study more enjoyable.

Did you know?

- Trinity College Dublin is ranked in the top 100 universities in the world for Pharmacy and Pharmacology (by the QS World University Rankings 2013).

Course content

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. There are approximately 16 hours of lectures, 6 laboratory sessions and 1 tutorial per week over the course of the Junior Freshman (first) year.

Some of the subjects covered during the four years of the course are:

- Biology:** A basic introduction to the molecular and cellular basis to life so that you can better appreciate how drugs and medicines work. It also includes introductory genetics, microbiology and developmental biology.
- Physiology:** The biology of the human body is an essential prerequisite to the study of pharmacology. Physiology covers the anatomy and physiology of all the major body systems, such as blood, the heart, digestive and nervous systems.
- Biochemistry:** A basic introduction to the ways in which drugs are metabolised and how they act or cause toxicity by interacting with basic systems within cells and tissues.
- Microbiology:** Studies bacteria, fungi and viruses. These are particularly important in pharmacy because these organisms cause so many diseases. Some medicines must be made free of microbes by either sterilisation or by being prepared aseptically.
- Pharmaceutical calculations and data handling:** Teaches both mathematics and data handling to assist you with the application of both in pharmaceutical calculations and statistics.
- Medicinal chemistry:** Covers the principles of drug design and isolation.
- Pharmaceutical analysis:** Deals with the theory and practice of pharmaceutical analysis.
- Physical pharmacy:** Covers the fundamental physiochemical principles of pharmacy of importance to formulation design, performance and stability.
- Pharmaceutical chemistry:** Deals with aspects of the sources, identification, analysis and stability of the materials used in medicines. Additional topics include advanced drug discovery and design, molecular mode of action of drugs and the chemistry of drug metabolism.
- Pharmaceutical biotechnology:** Develops an understanding of how genetics and biotechnological methods can be used to develop new drugs, especially proteins.
- Pharmaceutics and pharmaceutical technology:** This subject is concerned with the formulation, production and evaluation of all types of medicines such as tablets, creams and injections.
- 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 knowledge about how drugs work at the molecular, biochemical and cellular level that is essential if drugs are to be used effectively to treat disease in humans and in animals. The course also gives an appreciation of factors affecting the therapeutic benefits and adverse risks of medicines.
- **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.

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.

The following are some examples of research projects which students have undertaken in the past:

- Neuroimaging markers related to glial cell ablation as translational biomarkers for depression.
- Analysing the anti-inflammatory effect of a novel dinitrate-barbiturate MMP-9 inhibitor in an in vivo model of inflammatory bowel disease.
- Discovery of novel molecules to target Burkitt's lymphoma.
- Assessing 3D cell cultures compared to 2D cultures for testing drugs to use in breast cancer.
- Chemical evaluation of designed drugs from Head Shops.
- Assessing the impact of different milling processes on solid-state characteristics of selected excipient materials.
- Investigation of factors affecting vancomycin serum levels in critically ill patients.
- Assessment of clinical guidelines on the treatment of Chronic Non-malignant Pain.
- Paracetamol prescribing in patients under the care of the Medicine of the Elderly (MedEl) service in St. James's hospital.
- Investigation of anaesthetic practice and attitudes to prophylactic preparation of emergency drugs.

Summer research placement programme

We encourage our students (2nd and 3rd year students) to undertake the **summer research placement programme**.

This programme, including Erasmus, allows pharmacy students to carry out their research projects abroad over the summer (12 weeks) as part of their undergraduate degree programme. The students are either **funded by the Erasmus programme or the School**.

Assessment

A combination of continuous assessment and oral and written end-of-year examinations is used. Practical examinations are also an important means of assessment. Senior Sophisters (fourth-year students) submit a dissertation based on their projects.

Career opportunities

Your career prospects as a Pharmacy graduate are excellent. Employment opportunities exist in community, hospital and industrial pharmacy, as well as in state services such as medicines licensing. In addition, you can opt to undertake research, or apply for entry to one of the postgraduate courses in hospital, industrial or community pharmacy. See <http://pharmacy.tcd.ie/postgraduate/> for further details.

Further information

www.tcd.ie/Pharmacy
E-mail: pharmacy@tcd.ie
Tel: +353 1 896 2809

Student profiles: see course description at: www.tcd.ie/courses

The Pharmacy degree and professional qualification

The Pharmacy degree alone does not entitle you to practice as a patient-facing pharmacist.

After the four years in Trinity College students are required to undertake a further one year training period, known as the 'pre-registration year' or 'pharmacy internship year'. The internship year is under the auspices of the Pharmaceutical Society of Ireland (PSI) and, at present, is delivered by the Royal College of Surgeons in Ireland. The internship training year may be taken in a range of pharmaceutical settings including hospital, community and industrial environments, where you will work under the supervision of a tutor pharmacist. The year also comprises taught modules, continuous assessment and a final Pre-registration Examination. Successful completion of the internship year results in the award of a Masters in Pharmacy (MPharm), required for registration with the PSI.

A National Forum on Pharmacy Education and Accreditation (the National Pharmacy Forum) is working with the three schools of pharmacy in Ireland (TCD, UCC and RCSI) and all the major stakeholders to change the model of pharmacy education and develop a five year integrated programme whereby the full five years of pharmacist education becomes the responsibility of the higher education institutions (HEIs). Students will graduate with an MPharm degree after a five year programme, with work-place learning integrated into the five years.

Physiotherapy

COURSE CODES:	TR053
PLACES 2013:	40
POINTS 2012:	550
DEGREE AWARDED:	B.Sc. (Physio.)

Special Entry Requirements:

Leaving Certificate	OC3 or HD3 Mathematics HC3	In two of physics, chemistry, biology, physics/chemistry, mathematics or agricultural science
GCSE	Grade B	Mathematics
Advanced GCE (A-Level)	Grade C	In two of physics, chemistry, biology, or mathematics

Combinations of subjects not permitted:

Physics/chemistry with physics or chemistry
Agricultural science with biology

See Precautions against infectious diseases, page 199
Students will be required to undergo Garda vetting, see page 30 for further details.

What is Physiotherapy?

Physiotherapy – or physical therapy – places full and functional movement at the heart of what it means to be healthy. It involves treating patients of all ages with a range of illnesses and conditions, including those with back and neck problems, sports injuries, arthritis, or those recovering from strokes and operations. The methods employed include exercise therapy, manipulative procedures, and a variety of electrical treatments.

Physiotherapists may be part of a multidisciplinary medical team that includes physicians, nurses, speech and language therapists, psychologists, occupational therapists and social workers among others. Alternatively they may work from clinics or specialise in particular areas of the discipline.

Is this the right course for you?

Physiotherapy is both physically and academically demanding and you will need to have considerable emotional stability. Visiting a local general hospital or other area where physiotherapists work will give you a good understanding of what exactly is involved.

Physiotherapy at Trinity College

Physiotherapy is based in the Trinity Centre for Health Sciences in a purpose built complex at St. James's Hospital. This complex houses other health science disciplines and allows physiotherapy students to share courses with those in the other health sciences to give a multidisciplinary approach to studying and working.

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 content

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 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 their time on clinical placement.** In the fourth-year, students have an opportunity to develop specialist knowledge in a particular area of physiotherapy and undertake a **research project**.

The Freshman years

As a Freshman (first and second year) student you will have approximately 20 hours of teaching each week, divided between lecture and practical classes.

Courses covered in the first two years include:

- **Physiology**
- **Anatomy**
- **Physics**
- **Chemistry**
- **Pathology**
- **Biomechanics and movement** – 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.
- **Exercise therapy** – the use of exercise in prevention and treatment.

You will also start to study various conditions and specialities frequently seen in physiotherapy, such as respiratory conditions and musculoskeletal conditions.

At the end of second year you will start clinical placements under the supervision of skilled and experienced tutors. These may be taken in hospitals, clinics, day centres or within private and community practice.

The Sophister years

In the Junior Sophister (third) year half of the time is spent on academic studies and the other half on clinical placements in a variety of settings both within and outside the Dublin area.

In the Senior Sophister (fourth) year, the first term will be spent on two clinical placements. In the second term you will undertake an investigative project and study the following subjects: sports and exercise medicine, ergonomics, professional issues and advances in physiotherapy.

Assessment

End-of-year written examinations and tests in certain subjects, such as anatomy, make up the theoretical assessment structure. There are a number of submitted assignments in the Sophister years.

In addition, you will be continuously assessed during your clinical placement and will have practical exams on the skills element of the course, including your assessment of a patient while on a clinical placement.

Career opportunities

Successful completion of the course entitles you to membership of the Irish Society of Chartered Physiotherapists, the accrediting body for physiotherapy in Ireland.

Physiotherapists are sought throughout the world and you will be able to work with a wide range of conditions or to specialise, as you wish. There is also great scope for you to continue to develop your skills and expertise in areas such as manipulative therapy, sports injuries, neurology, cardiology, respiratory, research, education, management or private practice.

Did you know?

- All students will have clinical placements at Trinity College's associated teaching hospitals of St. James's and AMNCH in Tallaght, where there is an established expertise in most areas of physiotherapy. These placements allow students to gain experience in some of the specialist areas of physiotherapy including neurology, respiratory care, coronary care, orthopaedics, women's health, care of the elderly, sports and out-patients.

Further information

www.medicine.tcd.ie/physiotherapy

Tel: +353 1 896 2110 / 1

Student profiles: see course description at: www.tcd.ie/courses

Radiation therapy

COURSE CODES:	TR055
PLACES 2013:	30
POINTS 2012:	535*
DEGREE AWARDED:	B.Sc. (Ther. Rad.)

Special Entry Requirements:

Leaving Certificate	HC3	In one of physics, chemistry, biology, physics/chemistry
Advanced GCE (A-Level)	Grade C	In one of physics, chemistry or biology

Students will be required to undergo Garda vetting, see page 30 for further details.

What is Radiation therapy?

Radiation therapy is one of the main methods used to treat patients with cancer. This course qualifies you to work as a radiation therapist – the health care professional who, together with the other multidisciplinary team members, is responsible for the preparation and delivery of a course of radiation therapy. As a graduate radiation therapist you will be the main point of contact for the patient during the course of their treatment and involved in many aspects of their care during their radiation therapy treatment. As radiation therapy is expanding in Ireland so is the opportunity for role development making this an exciting time to be entering the profession.

Is this the right course for you?

The radiation therapist requires very specialist skills. The development of your clinical skills requires you to be interested in patient care. You will also need to have a keen interest in the field of science. Working as a radiation therapist will also require you to have good interpersonal and technical skills.

Radiation therapy at Trinity College

The Discipline of Radiation Therapy is based in the Trinity Centre for Health Sciences on St. James's Hospital Campus. You will have classes on both the main College and St. James's Hospital campuses. The four-year programme is continually evolving to provide you with the necessary academic and practical skills to work in an ever changing healthcare environment. The programme is delivered by experienced and enthusiastic staff that are focused on providing you with a quality learning experience. As an undergraduate student, you will benefit from **state-of-the-art facilities including the largest academic radiation therapy localisation and planning laboratory in Europe** and a virtual (simulator) radiation therapy treatment unit. In addition to campus-based learning, **you will gain extensive practical experience through clinical placements** in radiotherapy departments throughout Ireland.

Course content

This four-year honours degree gives you a broad academic base on which to develop the clinical skills of radiation therapy. It qualifies you to analyse, evaluate and make clinical decisions and to initiate, participate in and encourage research in cancer and radiation therapy. 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 contact hours are high in this course and the subjects are taught through lectures, laboratory-based practical sessions, workshops, tutorials and clinical placement in the hospital setting.

A significant clinical component is integral to this course.

The clinical sites are the radiation therapy departments attached to the St. Luke's Radiation Oncology Network at St Luke's; St. James' and Beaumont Hospitals in Dublin; Cork University Hospital; University College Hospital Galway; the Mater Private Hospital, Dublin; St. Vincent's Private Hospital, Dublin; the Galway Clinic; Mater Private at Midwestern Regional Hospital, Limerick; UPMC Beacon Clinic; UPMC Whitfield Clinic, Waterford, and the Hermitage Medical Clinic.

The duration of the clinical placement is 4 weeks in Junior Freshman (first) year, 9 weeks in Senior Freshman (second) year, 13 weeks in Junior Sophister (third) year and 15 weeks in Senior Sophister (fourth) year. Part of the clinical placement takes place during the vacation periods, and clinical placement consists of 35 hours per week. Students are placed in radiation therapy departments across the country, and accommodation costs for clinical placement are borne by the student.

The Freshman years

In the Freshman (first and second) years, the course covers 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 modules in the following areas: psychology, communication, pathology, research methodology and statistics, cancer care, radiation physics and professional attitudes and skills.

A clinical component (clinical placement) will introduce you to radiation therapy and will develop your understanding of the complexities of the cancer patient pathway.

The Junior Freshman year

In the Junior Freshman (first) year, there are approximately 20-30 hours per week in class.

First year subjects will cover the following areas:

- Biological principles and practices
- Chemical principles and properties
- Anatomy 1
- Physics for radiation therapy 1
- Principles and practices of cancer care 1
- Psychology and communication 1
- Clinical practice (clinical placement) 1

The Senior Freshman year

Second year subjects will cover the following areas:

- Biochemistry
- Physiology
- Anatomy 2
- Physics for radiation therapy 2
- Principles and practices of cancer care 2
- Psychology and communication 2
- Research methodology and statistics
- Clinical practice (clinical placement) 2

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 research project in this area.

The Junior Sophister year

Third-year subjects will cover the following areas:

- Principles and practices of cancer care 3
- Physics for radiation therapy 3
- Radiobiology
- Radiation therapy treatment planning
- Treatment localisation and verification
- Research methodology and statistics
- Clinical practice (clinical placement) 3

The Senior Sophister year

Fourth year subjects will cover the following areas:

- Radiotherapy in practice
- Research project
- Clinical practice (clinical placement) 4

Assessment

This course assesses both the theoretical and clinical subjects by a variety of methods including written end-of-year examinations, continuous assessment, individual and group project work, oral examination, practical exams and case studies. A clinical portfolio and research project are a substantial component of the assessment processes in your final year.

Career opportunities

There is a worldwide need for radiation therapists. The broad scientific content of the degree also means that you will be 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.

Did you know?

- **Information days** are held during the year for students interested in finding out more about radiation therapy. For details of the next information day, please contact Daléne Dougall on: + 353 1 896 3234 or dougallm@tcd.ie
- Contacting current students: If you would like to chat with a current student on the course please contact Daléne Dougall on: + 353 1 896 3234 or dougallm@tcd.ie

Graduate Profiles: For recent graduate profiles check out the link below: www.medicine.tcd.ie/radiation-therapy/undergraduate/graduate-profile.php

Further information

www.medicine.tcd.ie/radiation_therapy

Tel: + 353 1 896 3234 / 3252

E-mail: dougallm@tcd.ie

Student profiles: see course description at: www.tcd.ie/courses



Precautions against infectious diseases

IMPORTANT: PLEASE READ THIS SECTION CAREFULLY.

Clinical speech and language studies: As our overriding duty of care is to the public with whom speech and language therapy students may be in close contact, we are obliged to ensure that reasonable and appropriate measures are taken not only to safeguard students and their colleagues, but also clients and members of the public. Students must produce a negative Hepatitis B s-Antigen (HBsAg) and Anti HB Core Antigen (Anti-HBc) test result carried out within six months prior to entry before being permitted to register for this course. In the case of a positive result from the above, a Hepatitis B e-antigen (HBeAg) test with a negative result will be required before registration. International applicants are advised to undergo the HBsAg test in their home country and to forward the result to the relevant office as soon as possible thereafter. The College reserves the right to retest prior to admission. Prior to the first practice placement, students accepted on to the undergraduate programme, must be immunised against measles, rubella, tuberculosis and varicella unless immunity as a result of natural infection or previous vaccination has been documented. Some health service providers may require students to be screened for additional conditions, for example MRSA.

Dental science, Dental hygiene, Dental nursing, and Dental technology: All new entrants must attend their regular medical practitioner prior to registration to certify their vaccination status or immunity to tuberculosis, measles, mumps, rubella and chickenpox. Registered students in Dental science, Dental hygiene, Dental nursing, and Dental technology must remain free of any life-threatening infectious condition that could be transmitted to a patient or fellow health worker. Such conditions could include but are not limited to; HIV, Hepatitis B, Hepatitis C, tuberculosis, chickenpox, measles, mumps and rubella.

Students in Dental science and Dental hygiene must produce an acceptable hepatitis B virus infection result (i.e. negative HBsAg or in the presence of positive HBsAg, negative HBeAg and negative HBV-DNA) and a negative Hepatitis C antibody test (or if positive, a negative PCR test for hepatitis C RNA) carried out not more than six months prior to entry, before being permitted to register with the College. International students are advised to undergo testing in their home country and to forward the result to the Dental School as soon as possible thereafter. The College reserves the right to retest prior to admission.

Students admitted to the dental courses who are not already deemed to be immune to Hepatitis B will be required to undergo a course of vaccination. Details of vaccination programmes may be obtained on request from the Dental School.

Medicine: With regard to the transmission of infectious diseases, the School of Medicine at Trinity College Dublin strikes a balance between our pastoral responsibility to individual students applying for entry and our overriding duty of care to the public with whom medical students are in close contact. In this context, the School is obliged to ensure that reasonable and appropriate measures are taken not only to safeguard the students and their colleagues, but also the patients and members of the public. Details of the vaccination programmes and the blood borne viruses (BBV) policy for medical students are available at the Medical School office. The BBV policy for medical students is available on the School of Medicine website.

All health care professionals have a duty of care to the public. In the interests of reducing the risk of the transmission of infectious diseases from patients to students, or student to patient, all new entrants must attend their regular medical practitioner or the College Health Service prior to registration to certify their vaccination status or immunity to tuberculosis, measles, mumps, rubella and chickenpox. In addition, students must produce evidence of their hepatitis B and C status and where appropriate confirmation that they do not have active disease. Students who are hepatitis B negative but not already deemed to be immune to hepatitis B will be required to undergo a course of vaccination. Details of specific investigations required and the vaccination programmes available are communicated to applicants as part of the admissions process (in the infectious diseases information booklet) and are available at all times in the Medical School office.

Nursing and Midwifery: Prior to the first practice placement, students on the pre-registration undergraduate Nursing and Midwifery programmes must be immunised against Hepatitis B, measles, rubella, tuberculosis and varicella unless immunity as a result of natural infection or previous vaccination has been documented. Screening (including medicals) and vaccination will be organised by the health service provider where the student will practice. Some health service providers may require students to be screened for additional conditions, for example MRSA.

Occupational therapy: Students accepted on to the pre-registration undergraduate Occupational therapy programme, prior to the first practice placement, must be immunised against Hepatitis B, measles, rubella, tuberculosis and varicella unless immunity as a result of natural infection or previous vaccination has been documented.

Physiotherapy: Students accepted on to the undergraduate Physiotherapy programme, prior to admission, must be immunised against Hepatitis B, Hepatitis C, measles, rubella, tuberculosis and varicella unless immunity as a result of natural infection or previous vaccination has been documented. In the interests of reducing the risk of the transmission of infectious disease, all new entrants must attend Trinity College Health Service or their medical practitioner before they will be accepted to register for the course to certify their hepatitis status, vaccination status or immunity to, tuberculosis, measles, rubella and chickenpox.

Students in Physiotherapy must produce a negative Hepatitis B virus infection result (i.e. negative HBsAg or in the presence of a positive HBsAg, negative HBeAg and negative HBV-DNA where applicable) and a negative Hepatitis C antibody test (and if positive a negative PCR test for hepatitis C RNA) carried out not more than six months prior to entry. Students admitted to this course who have a negative Hepatitis B blood result but not already deemed to be immune to Hepatitis B will be required to undergo a course of vaccination. Overseas applicants are advised to undergo testing in their home country and to forward the result to the Discipline of Physiotherapy. Further information relating to vaccination requirements is available from the Discipline of Physiotherapy.

All costs associated with tests for infectious diseases and vaccination must be met by the student.

General: Some health service providers may require students to be screened for additional conditions, for example MRSA, which will be completed at the clinical site. All costs associated with tests for infectious diseases and vaccination must be met by the student.

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, Trinity College 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.

Details of vaccination requirements will be provided to all incoming students, and full details of all requirements regarding precautions against infectious diseases may be obtained on request from the following offices:

Clinical speech and language studies:

Department of Clinical Speech and Language Studies
Trinity College
Dublin 2
Tel: +353 1 896 1588

Dental science:

School of Dental Science
Trinity College
Lincoln Place
Dublin 2
Tel: +353 1 896 1789 / 1690

Medicine:

School of Medicine
Biomedical Sciences Institute
Trinity College
Dublin 2
Tel +353 1 896 1075

Nursing and Midwifery:

The Allocations Office
The School of Nursing and Midwifery
24 D'Olier Street
Dublin 2
Tel: +353 1 896 2031

Occupational therapy:

Discipline of Occupational therapy
Trinity Centre for Health Sciences
St. James's Hospital
James's Street
Dublin 8
Tel: +353 1 896 3210

Physiotherapy:

Department of Physiotherapy
Trinity Centre for Health Sciences
James's Street
Dublin 8
Tel: +353 1 896 2110





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Alert list – 2014

New course title

TR095/096 'Psychiatric nursing' have been renamed 'Mental health nursing'.

New selection process

TR093/094 'General nursing – Adelaide School of Nursing'

Applicants will no longer be called for interview.

Applicants will be sent an additional application form in mid March, to be returned to the Adelaide Hospital Society. On the basis of the completed application form, a list of eligible applicants will be selected. Places on this course will then be allocated on the basis of Leaving Certificate points/mature students' written assessment scores.

Changes to the HPAT-Ireland test for entry to undergraduate medicine in 2014

1. The weightings of the three sections in this test have been revised. The new weightings apply from 2014, with sections 1 and 2 each accounting for 40% and section 3 accounting for 20%.
2. The results of HPAT-Ireland examinations sat in 2013 and subsequent years will only be valid for a single year for admission to undergraduate medical courses. This means that it will not be possible to present results achieved in the 2013 sitting of the HPAT-Ireland test for admission to undergraduate medical courses in 2014.

Important dates for applicants

7 December 2013	TCD Open Day.
9 January 2014	Mature students advice and information seminar. See page 15.
20 January 2014	Closing date for registration for the HPAT-Ireland test for entry to Medicine.
20 January 2014	Final date for CAO online discounted application fee.
22 January 2014	DARE application clinic – for students with disabilities. See page 22.
1 February 2014	<ul style="list-style-type: none"> ■ Normal closing date for CAO. ■ Applications to restricted entry courses must be made to the CAO by this date. ■ Closing date for applications from mature students, and for submission of mature students supplementary application forms (for all full-time courses except Nursing or Midwifery). ■ DARE and HEAR applicants must have applied to CAO. ■ Applications from non-EU students wishing to pursue a full degree should be submitted to the Admissions Office, Trinity College, Dublin 2, Ireland.
1 March 2014	<ul style="list-style-type: none"> ■ Date of HPAT-Ireland test for entry to Medicine. ■ Closing date for applications to sit the University matriculation examination. ■ DARE applicants must have disclosed their disabilities and/or specific learning difficulties in their CAO applications, and fully and correctly complete Section A of the Supplementary Information Form. ■ HEAR applicants must have applied to HEAR and finalised all elements of their HEAR online application. ■ Applications from EU and non-EU students wishing to study as a visiting student for up to one academic year should be submitted online.
29 March 2014	Provisional date for Music and Music education entrance examination.
1 April 2014	<ul style="list-style-type: none"> ■ DARE applicants must have completed and returned sections B and C of the Supplementary Information Form. ■ HEAR applicants must have submitted relevant evidence in support of their application to CAO.
1 May 2014	<ul style="list-style-type: none"> ■ Late closing date for CAO (Note: Late applications to restricted entry courses, and late applications from mature students will not be considered).
31 May 2014	Closing date for receipt of applications for the Reid Entrance Exhibition.
1 July 2014	Closing date for submission of a 'Change of Mind' to CAO.

See www.tcd.ie/calendar/term-dates for Term Dates 2014-2015

View Trinity's 2012 Open Day Videos

on **You**Tube

Featured Playlists



Ancient and Medieval History and Culture - TCD Open Day 2012

by TRINITYCOLLEGEDUBLIN 333 views

A talk from Ancient and Medieval History at the Undergraduate Open Day, December 2012, Trinity College Dublin....



Biochemistry and Immunology - TCD Undergraduate Open Day 2012

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A talk from Biochemistry and Immunology at the Undergraduate Open Day, December 2012, Trinity College Dublin....



Business Economics and Social Studies - TCD Undergraduate Open Day 2012

by TRINITYCOLLEGEDUBLIN 176 views

A talk from Business, Economics and Social Studies at the Undergraduate Open Day, December 2012, Trinity College Dublin...



Business Studies and a Language - TCD Undergraduate Open Day 2012

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Catholic Theology - TCD Undergraduate Open Day 2012

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A talk from Catholic Theology at the Undergraduate Open Day, December 2012, Trinity College Dublin...



Changing Worlds: Geography in TCD - TCD Undergraduate Open Day 2012

by TRINITYCOLLEGEDUBLIN 23 views

A talk from Changing Worlds: Geography in TCD at the Undergraduate Open Day, December 2012, Trinity College Dublin....



Chemistry (Video Version) - TCD Undergraduate Open Day 2012

by TRINITYCOLLEGEDUBLIN 66 views

A talk from Chemistry at the Undergraduate Open Day, December 2012, Trinity College Dublin...

Notes



OPEN DAY 2013

Saturday 7th December 2013

The exciting and informative programme of events will include:

- Course specific presentations
- Individual stands for each course, where you can meet our academic staff and current students to obtain detailed course information
- Demonstrations and laboratory tours
- Presentations about student sports, societies and the Students' Union
- Specific sessions for mature students, access students, and parents
- Campus tours and tours of College facilities, including the sports centre



Full details will be available at www.tcd.ie/Admissions/undergraduate in November.

WE LOOK FORWARD TO MEETING YOU AT OUR OPEN DAY!

ONLINE INFORMATION

Courses: www.tcd.ie/courses

Admissions: www.tcd.ie/Admissions/undergraduate

CAO Points:

www.tcd.ie/Admissions/undergraduate/requirements/entrypoints

Accommodation: www.tcd.ie/accommodation/StudentsandStaff/Students/TrinityHall

Main TCD website: www.tcd.ie

Virtual tour: www.tcd.ie/virtualtour

Student life: www.tcdlife.ie

Sports clubs: www.ducac.tcdlife.ie

Sports facilities: www.tcd.ie/sport

Student societies: www.trinitysocieties.ie



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www.youtube.com/trinitycollegedublin



<http://itunes.tcd.ie>



<https://twitter.com/tcddublin>



Copies of this publication are available free of charge from

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